

Fig. 1

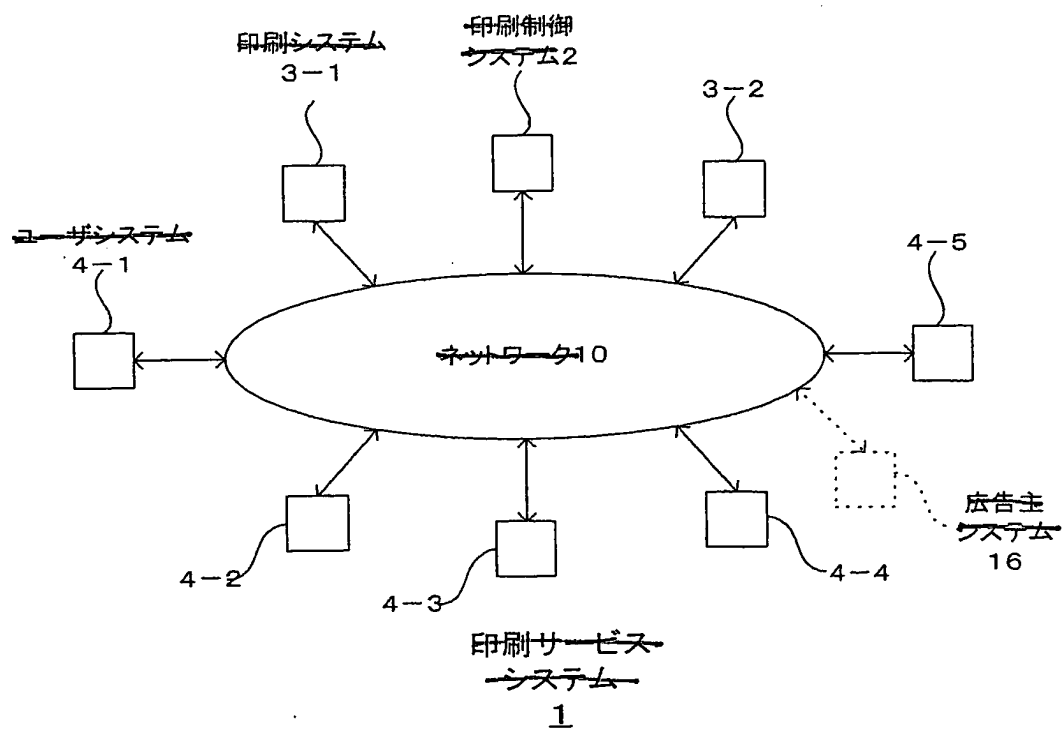
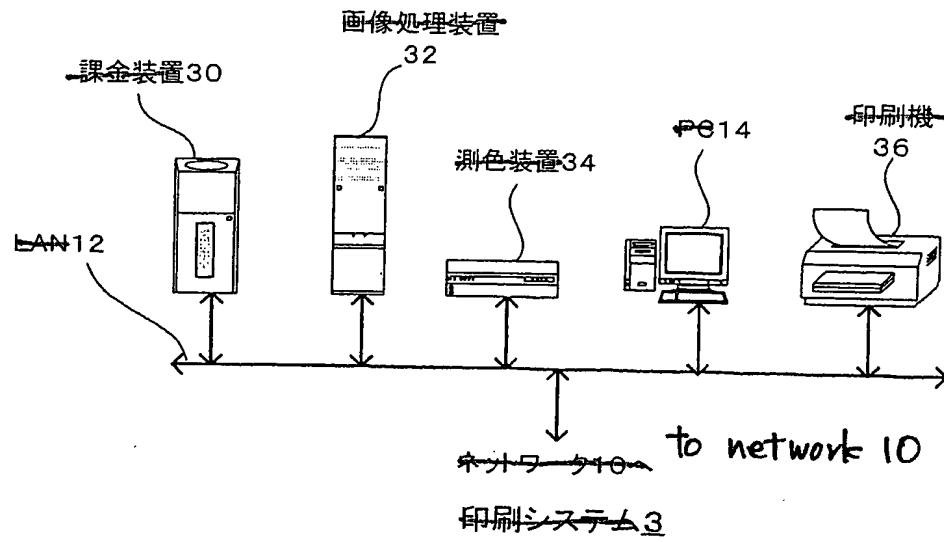


Fig. 2

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【図3】 Fig. 3

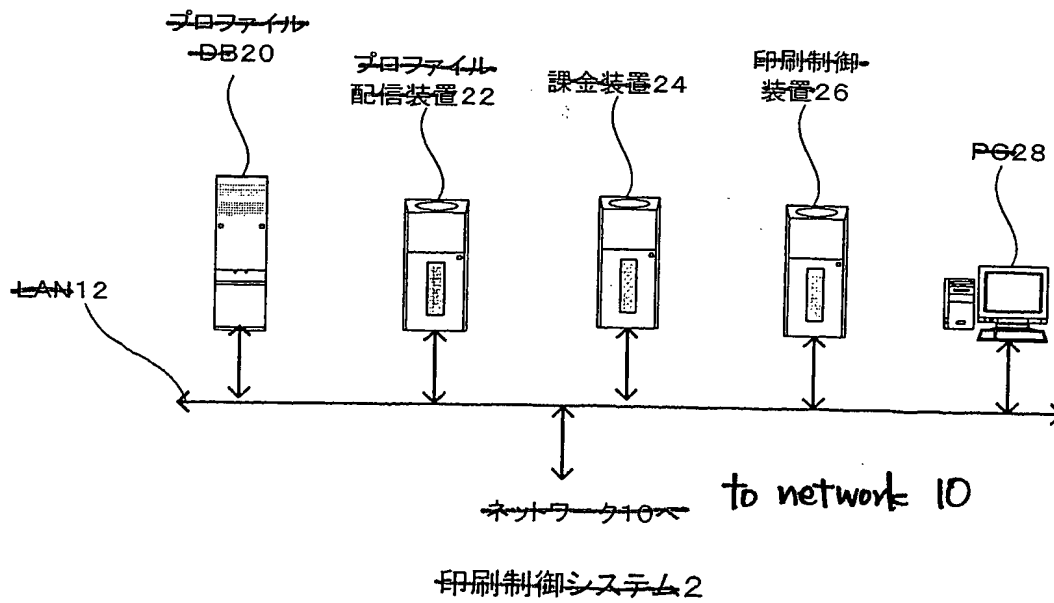


Fig. 4

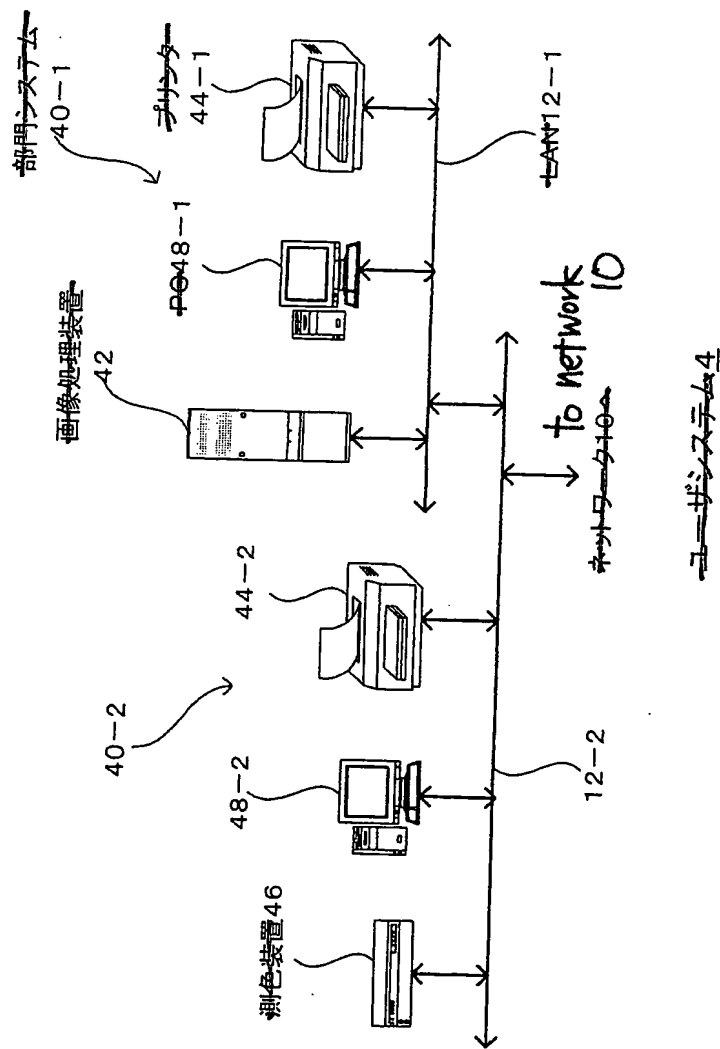
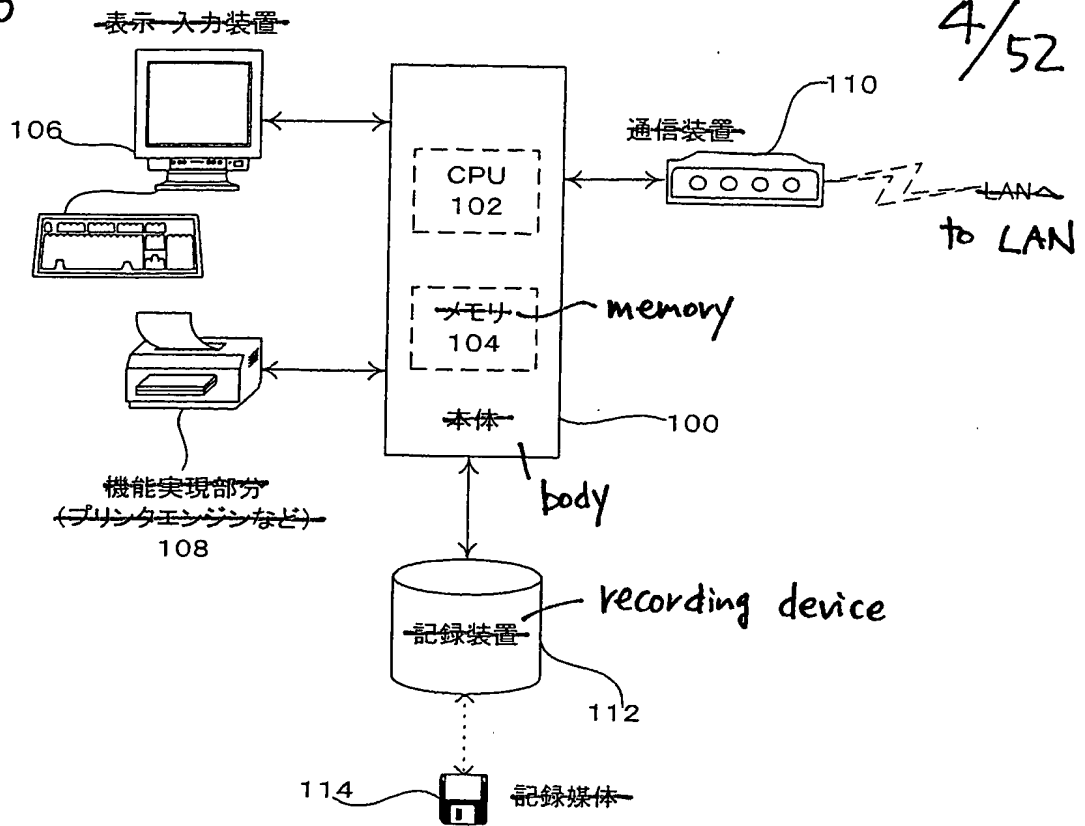


図4

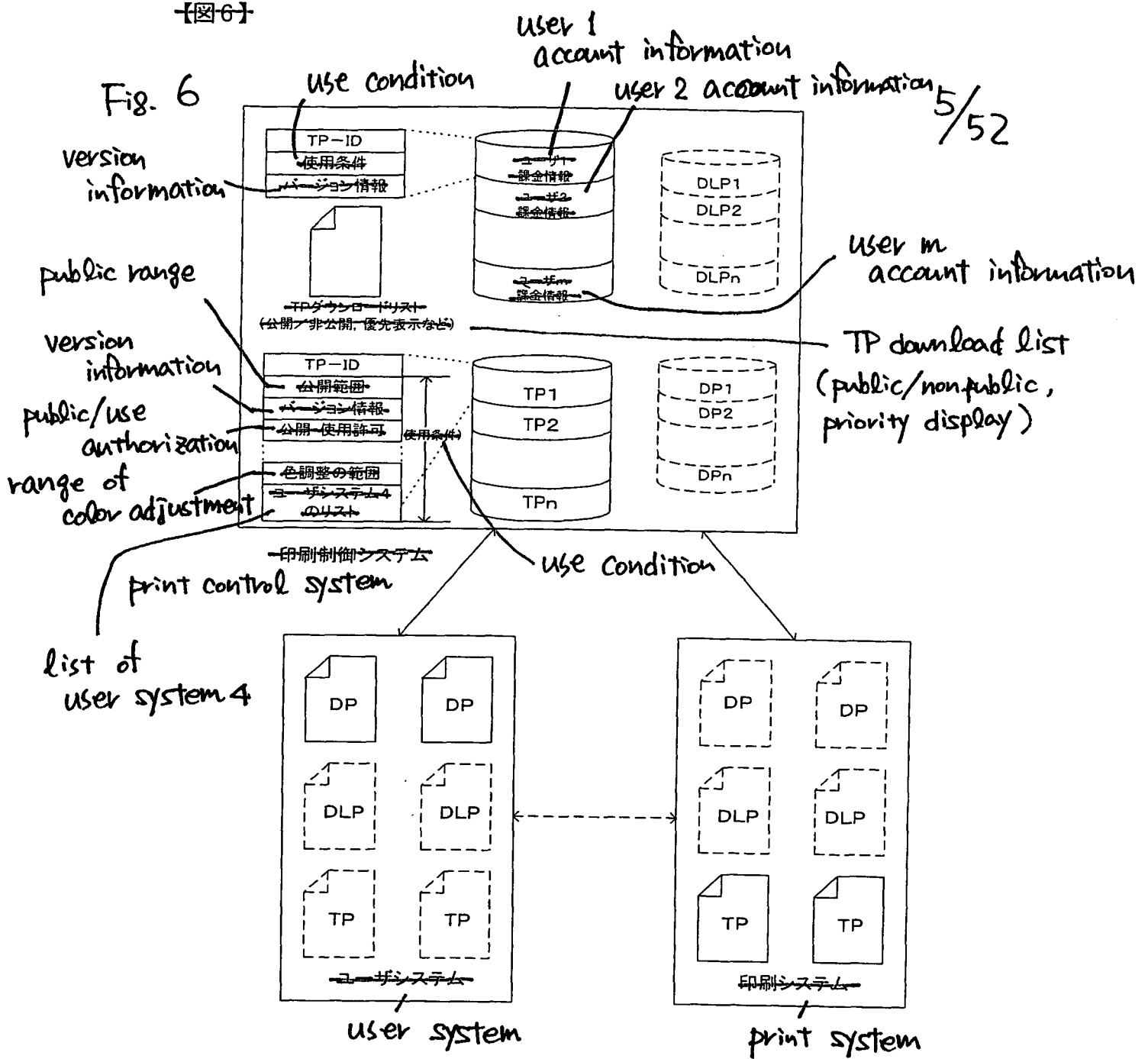
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Fig. 5



プロファイル 14, 28, 48, プロファイルDB 20,
プロファイル配信装置 22, 課金装置 24, 30,
印刷制御装置 26, 画像処理装置 32, 42,
測色装置 34, 46, 印刷機 36, プリンタ 44

Fig. 6



【図7】

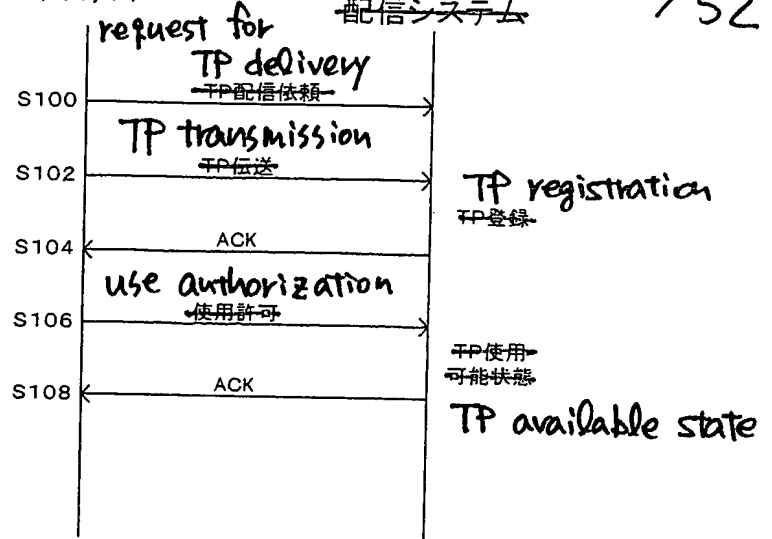
Fig. 7

user system
ユーザ
システム

print
system
印刷
システム

profile
delivery system
プロフィール
配信システム

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TP配信開始 (S10)
TP delivery start

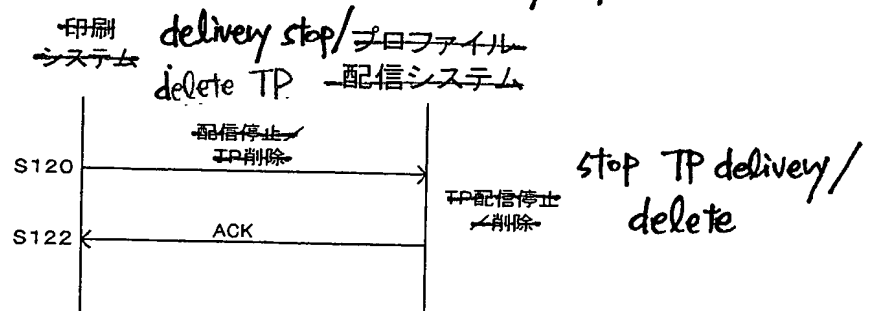
【図8】

Fig. 8

user system
ユーザ
システム

print system
印刷
システム

profile delivery system
プロフィール
配信システム



TP配信停止 (S12)
TP delivery stop

Fig. 9

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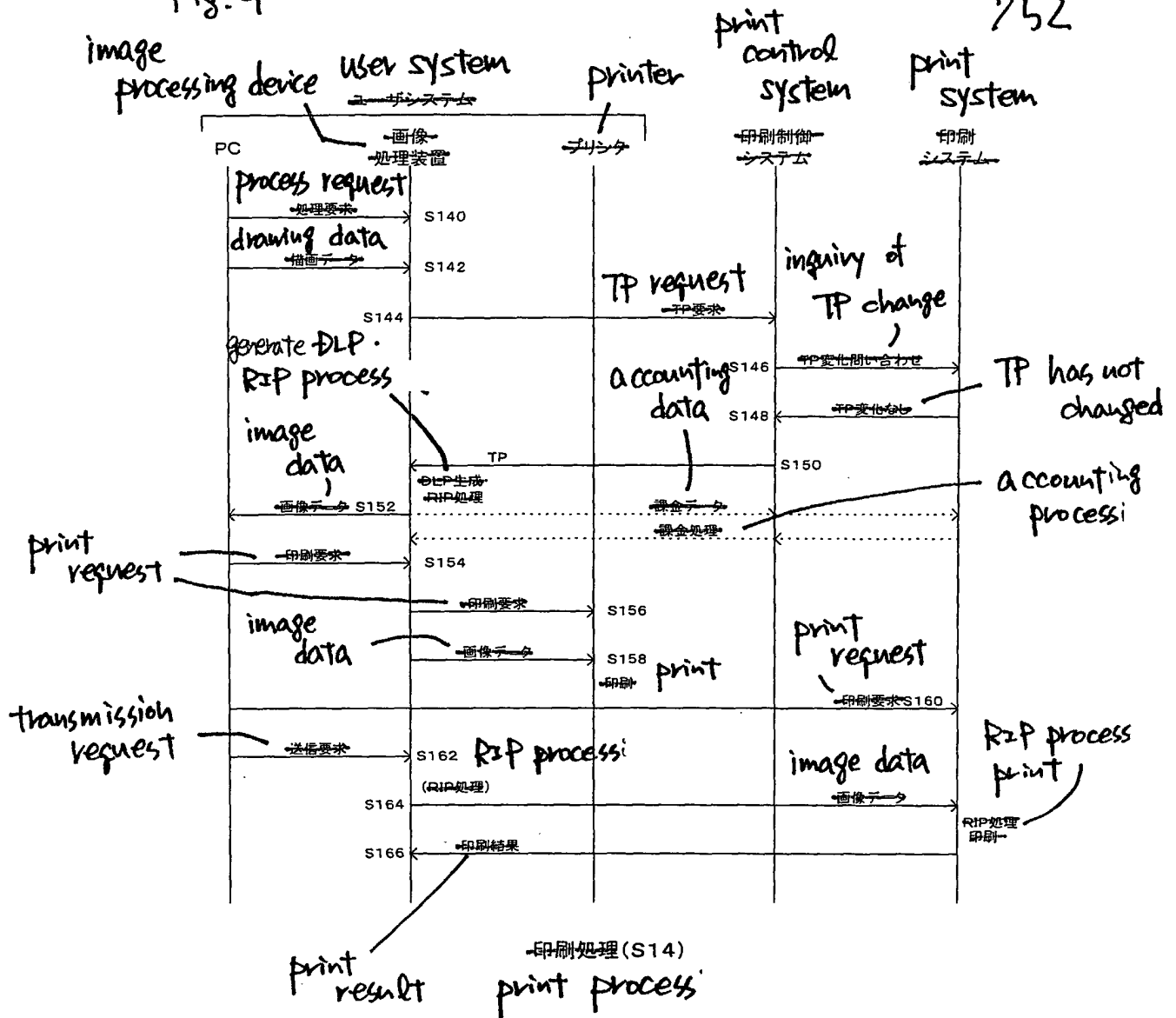


Fig. 10

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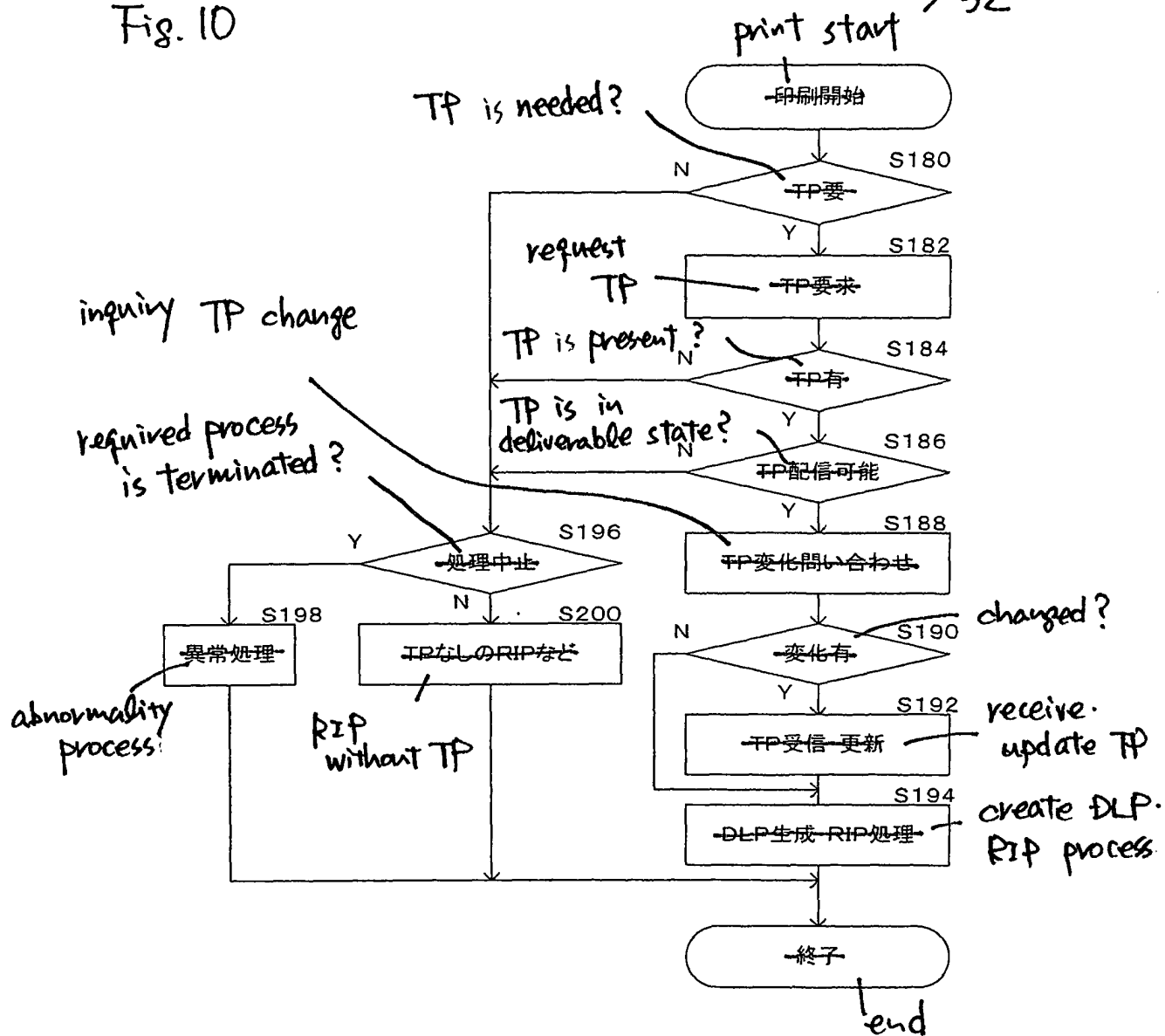


Fig. 11

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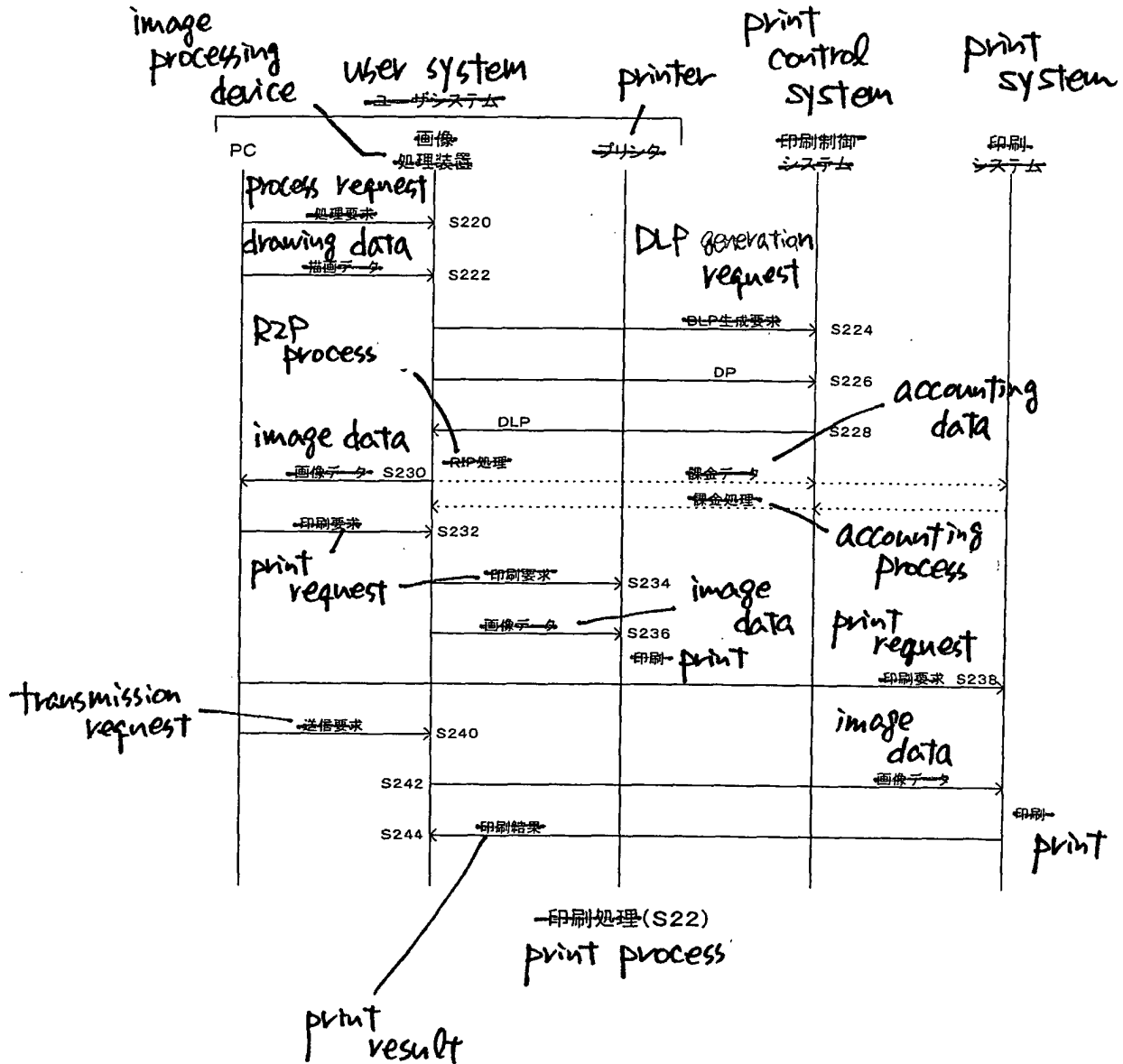
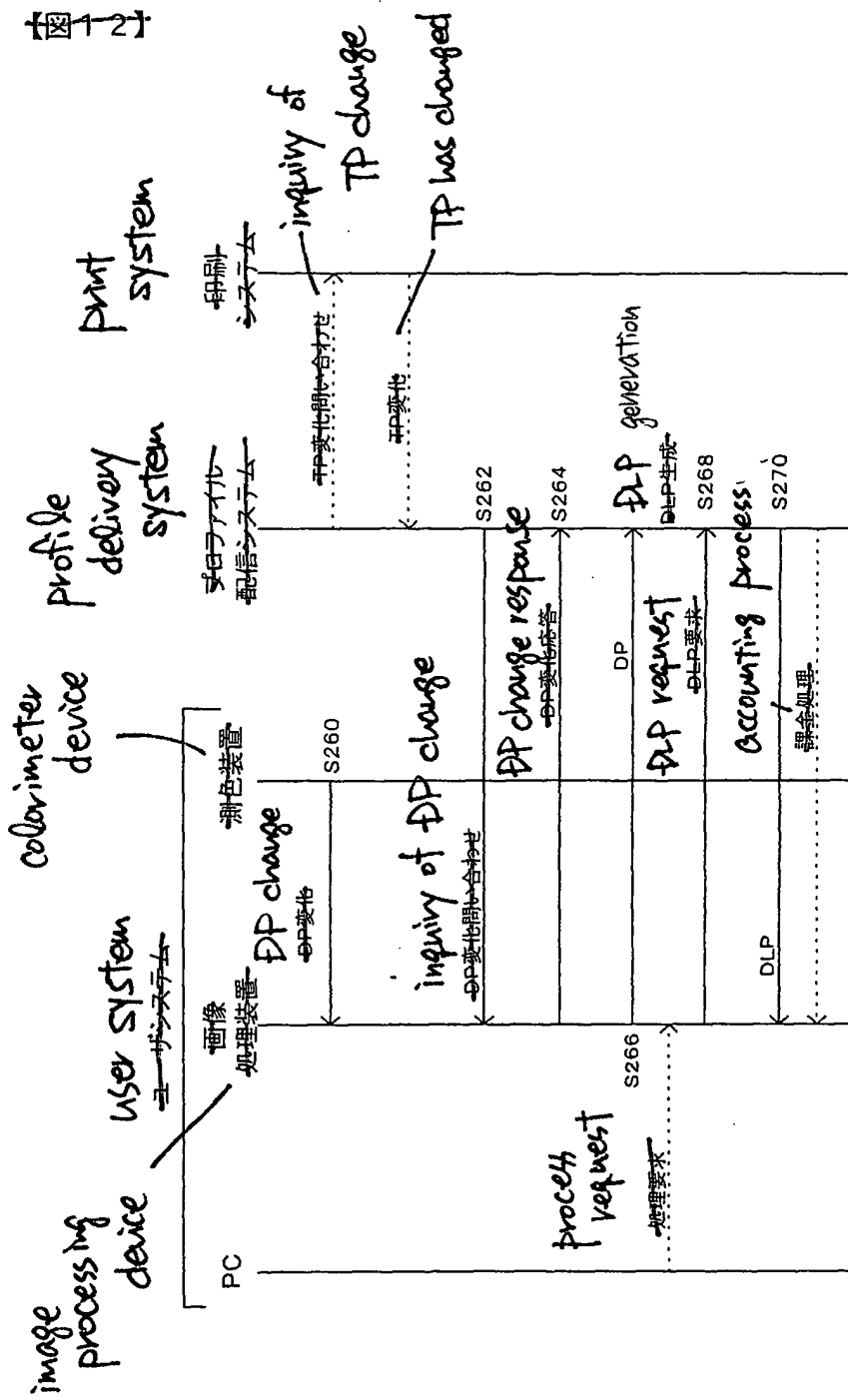


Fig. 12



DLP 自動生成処理 (S26)

DLP automatic generation process

Fig. 13

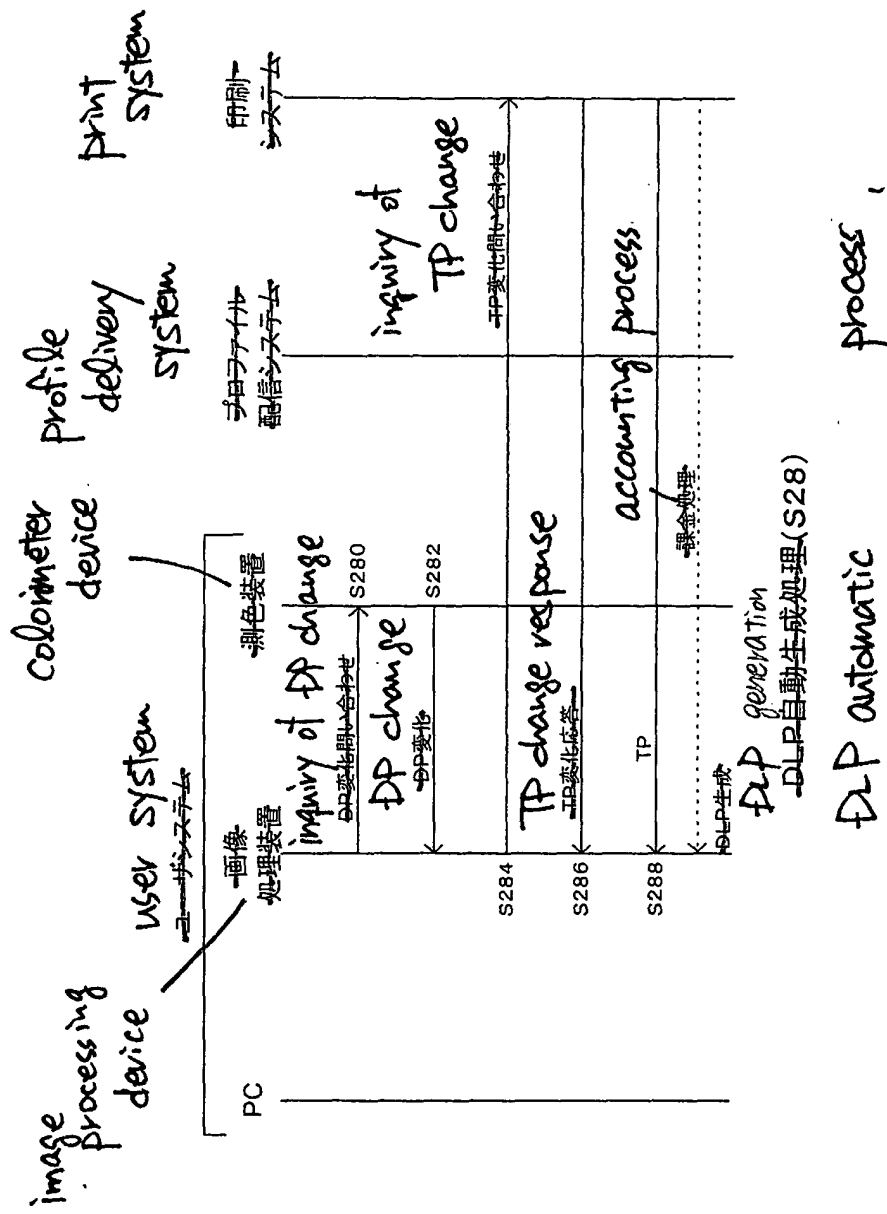
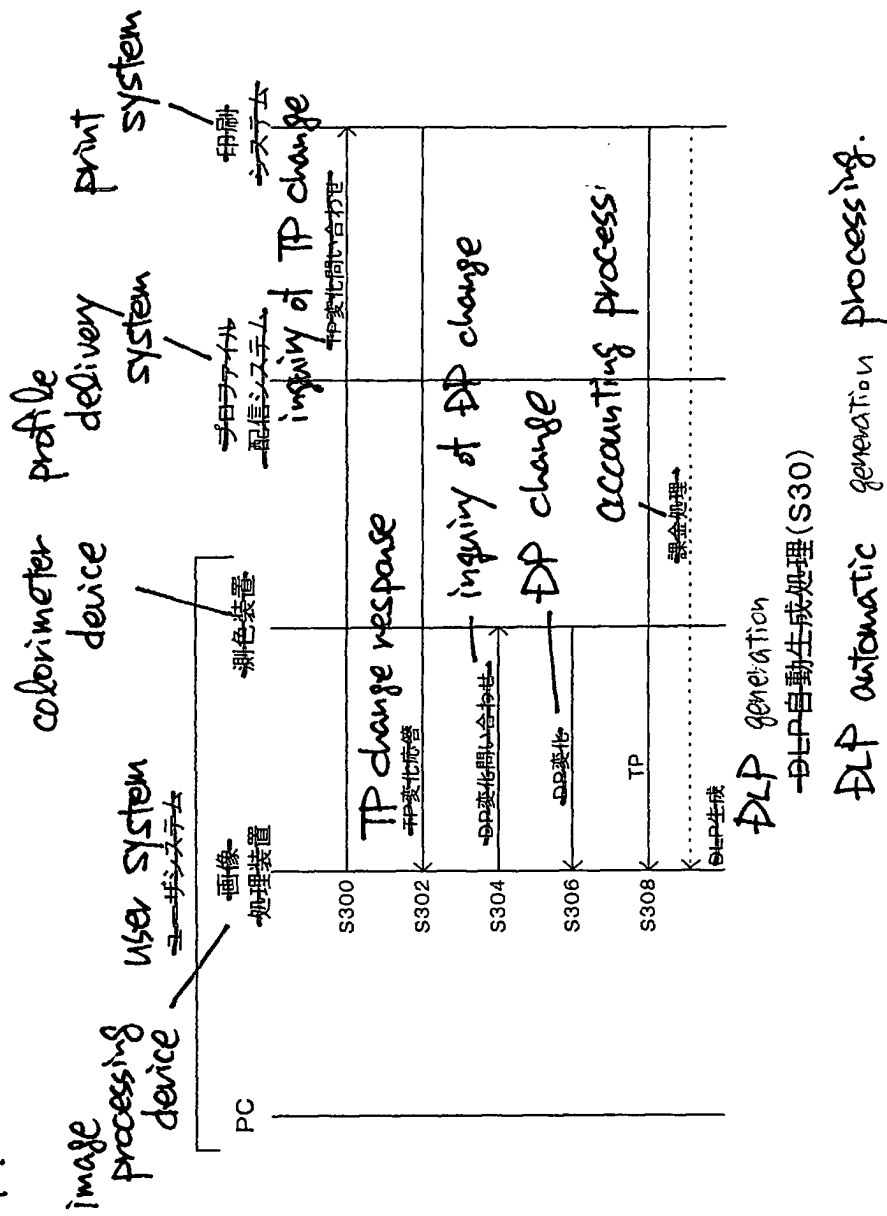


Fig. 14



【図14】

Fig. 15

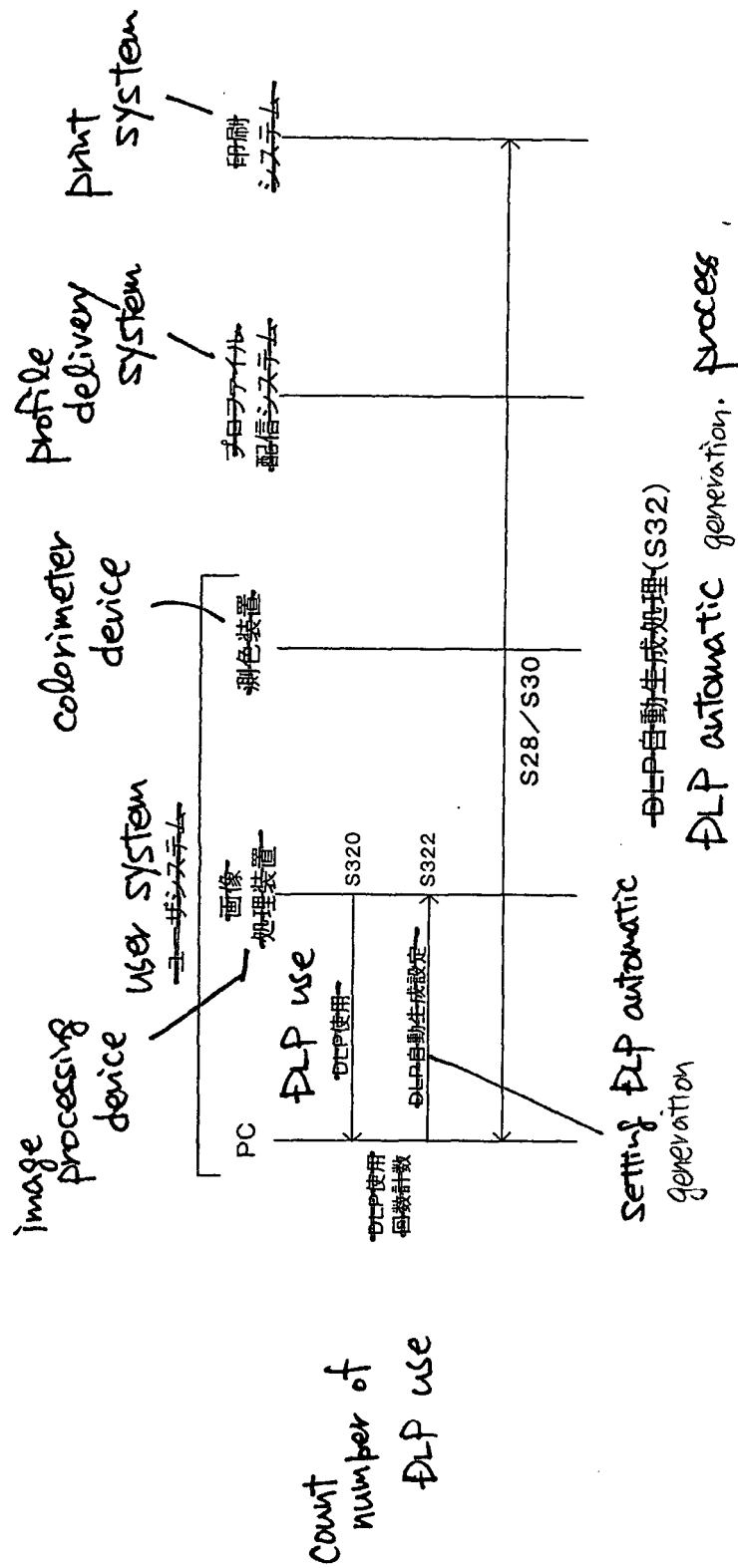


Fig. 16
user system #1
(image processing device)

use system #2

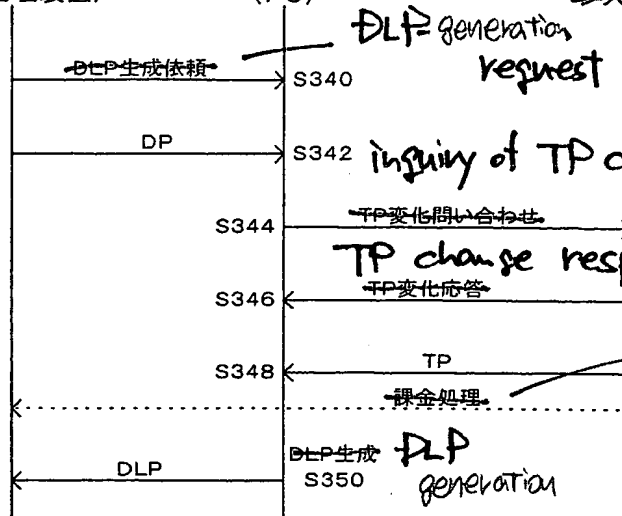
print system

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ユーザ
システム #1
(画像処理装置)

ユーザ
システム #2
(PC)

印刷
システム



DLP生成依頼処理(S34)

DLP generation request process

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Fig. 17

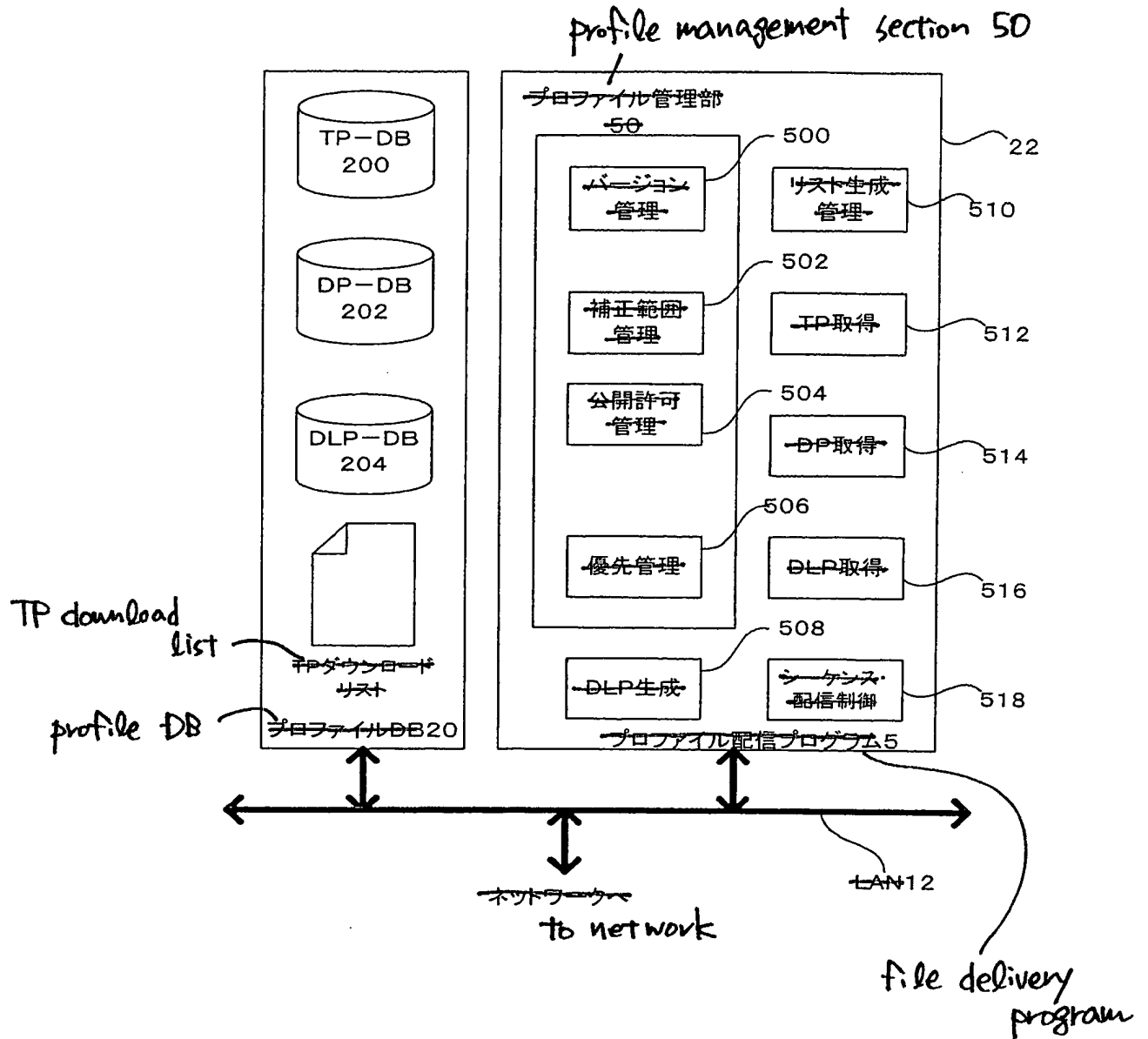
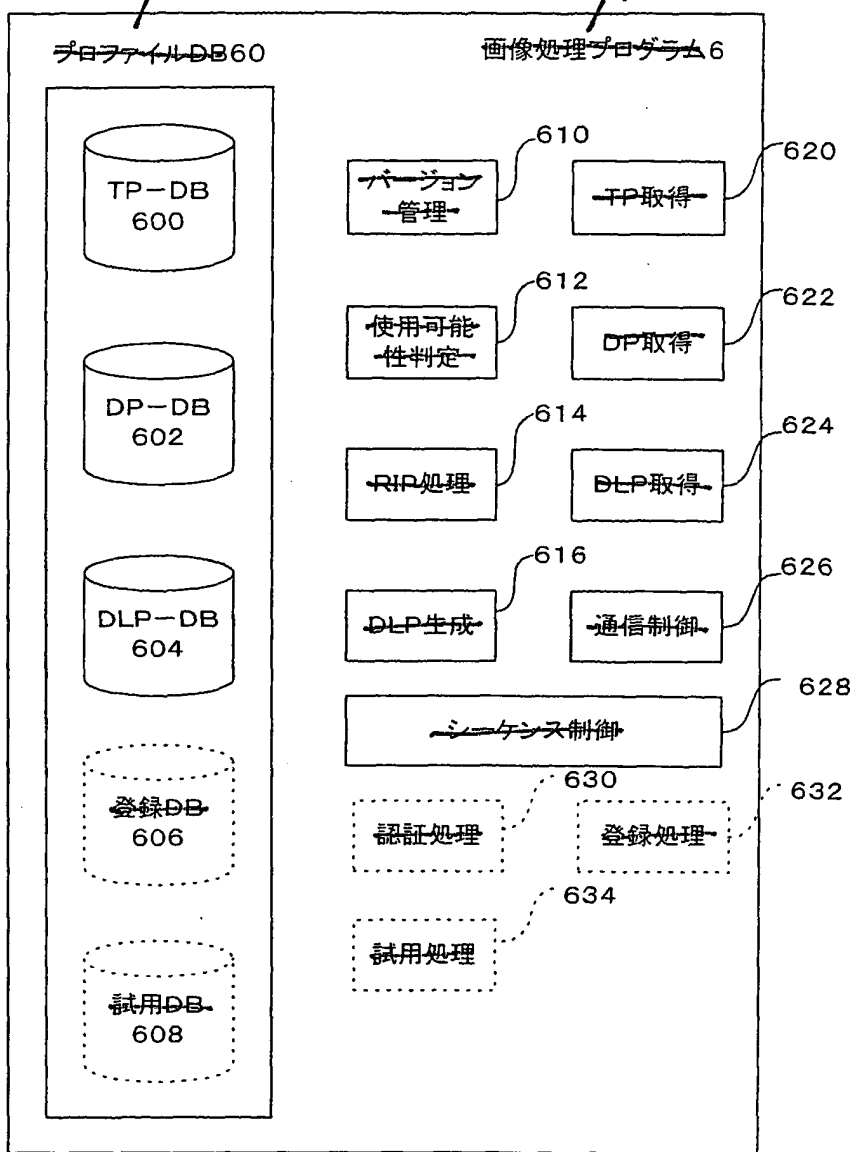


Fig. 17

500 VERSION MANAGEMENT SECTION
502 CORRECTION RANGE MANAGEMENT SECTION
504 PUBLIC AUTHORIZATION MANAGEMENT SECTION
506 PRIORITY MANAGEMENT SECTION
508 DLP GENERATION SECTION
510 LIST GENERATION MANAGEMENT SECTION
512 TP ACQUISITION SECTION
514 DP ACQUISITION SECTION
516 DLP ACQUISITION SECTION
518 SEQUENCE/COMMUNICATION CONTROL SECTION

Fig. 18 profile DB

image processing program 16/52



画像処理装置42(32)

Fig. 18

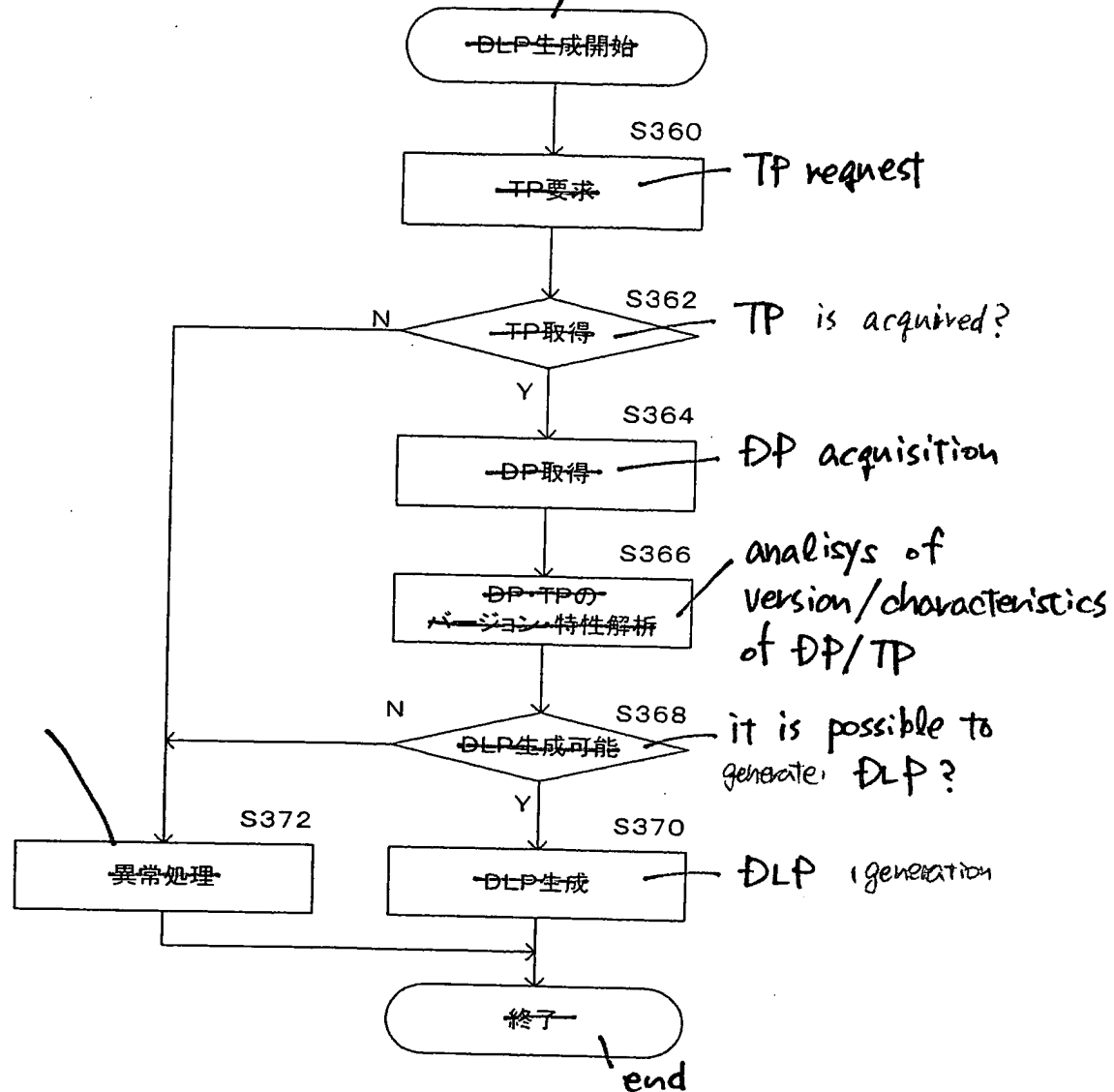
606 REGISTRATION DB
608 TRIAL DB
610 VERSION MANAGEMENT SECTION
612 AVAILABILITY DECISION SECTION
614 RIP PROCESS SECTION
616 DLP GENERATION SECTION
620 TP ACQUISITION SECTION
622 DP ACQUISITION SECTION
624 DLP ACQUISITION SECTION
626 COMMUNICATION CONTROL SECTION
628 SEQUENCE CONTROL SECTION
630 AUTHENTICATION PROCESS SECTION
632 REGISTRATION PROCESS SECTION
634 TRIAL PROCESS SECTION

Fig. 19

DLP generation start

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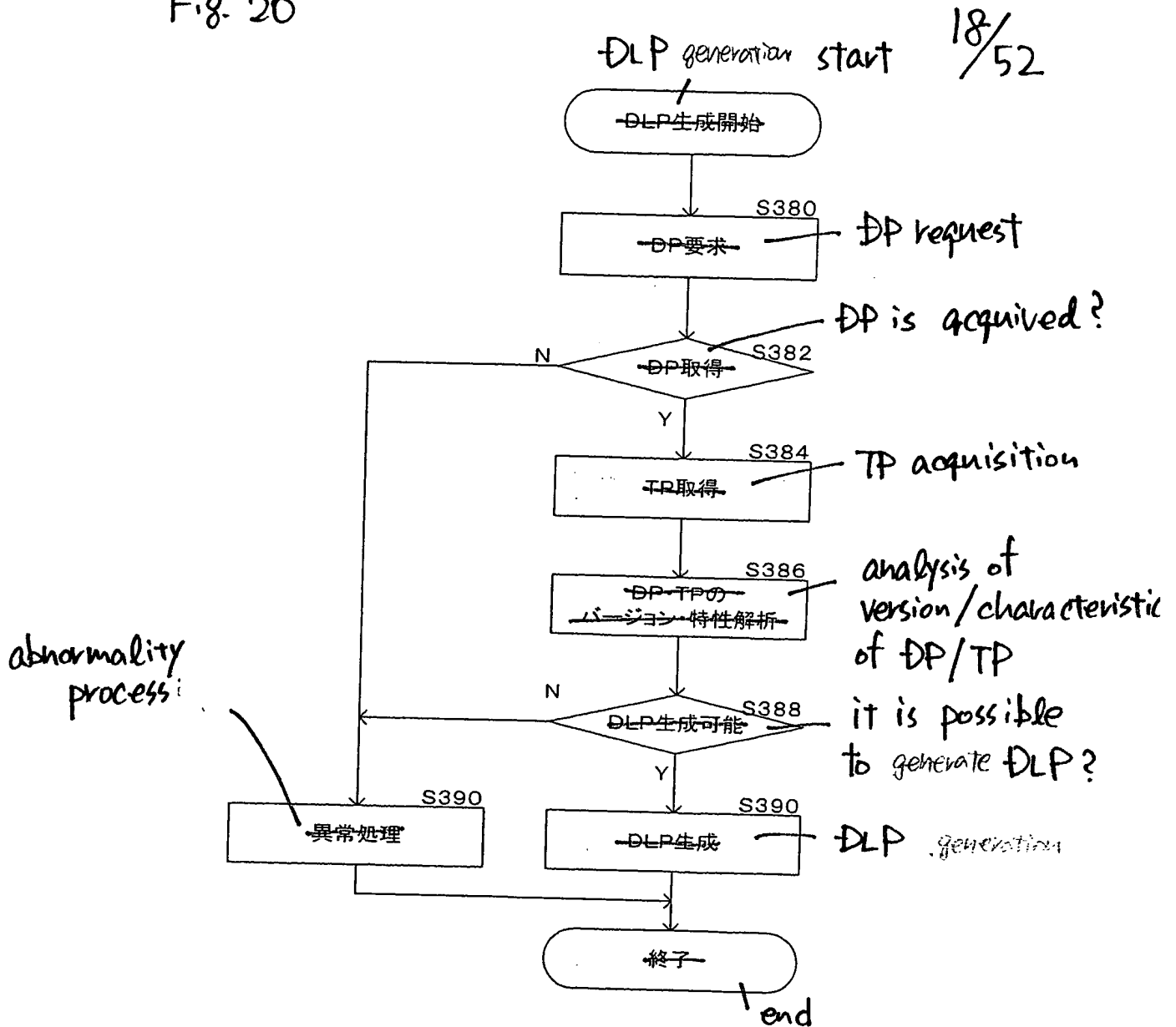
abnormality
process



~~ユ~~ザシステム側でのDLP生成(S36)

DLP generation on user system side

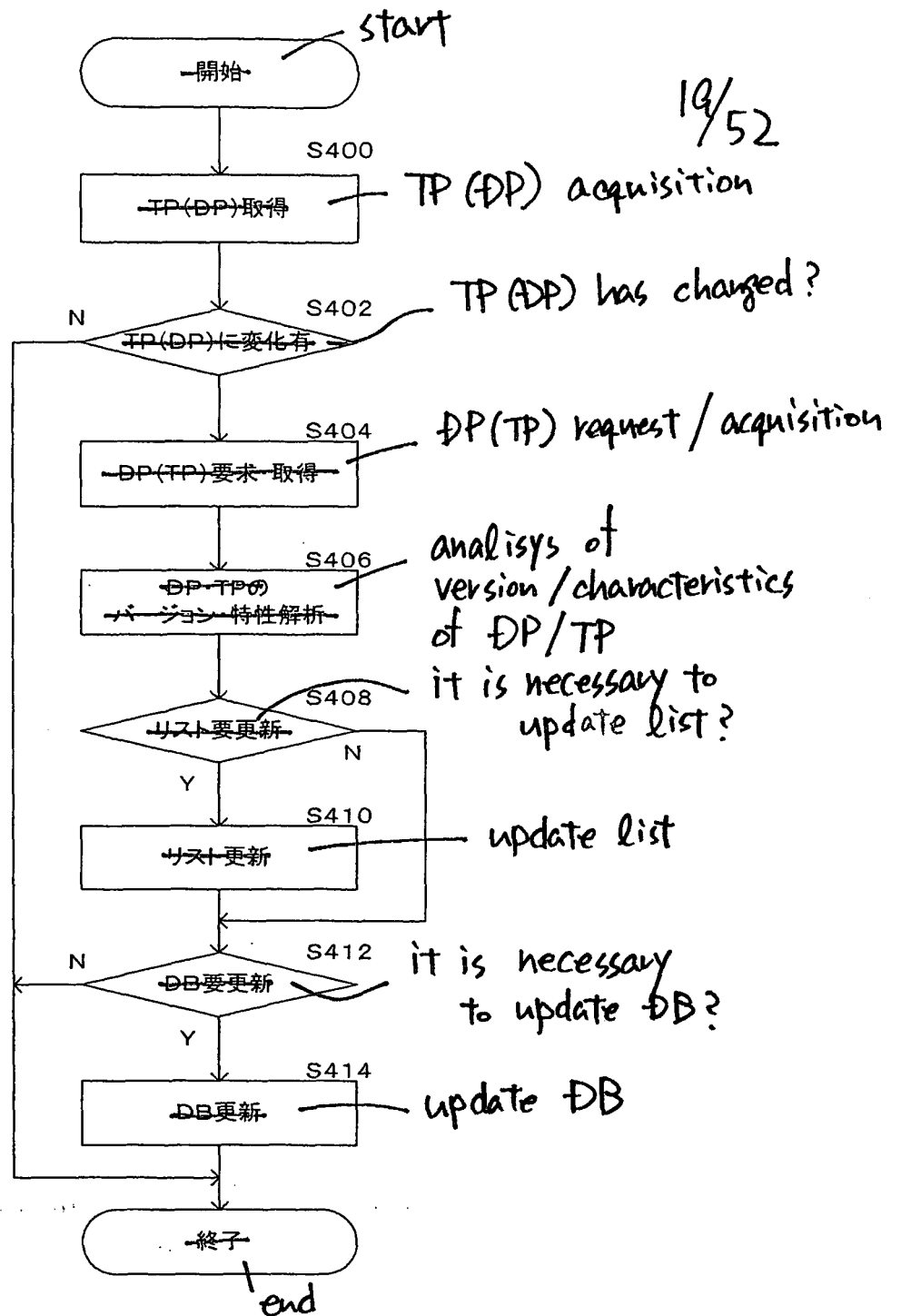
Fig. 20



プロフィール配信システム側での
DLP生成(S38)

DLP generation on profile delivery
system side

Fig.21



プロファイル配信システム側
リスト・DB更新(S40)

list / DB update
on profile delivery system side

Fig. 22

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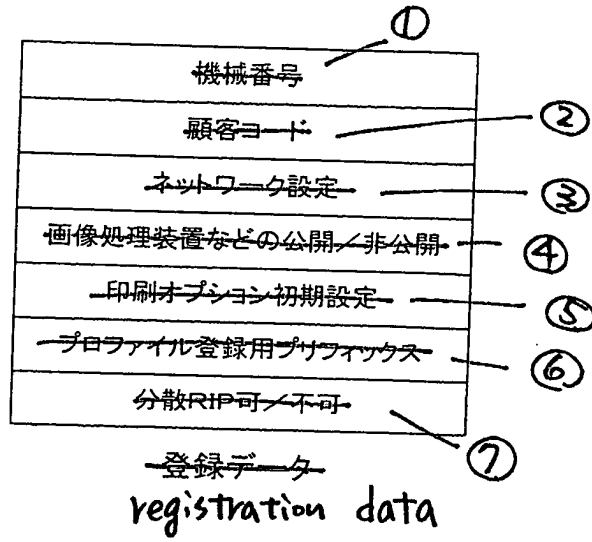


Fig. 22

- ① MACHINE NUMBER
- ② CUSTOMER CODE
- ③ NETWORK SETTING
- ④ PUBLIC/PRIVATE OF IMAGE PROCESSING DEVICE
- ⑤ INITIAL SETTING OF PRINT OPTION
- ⑥ PROFILE REGISTERING PREFIX
- ⑦ DECENTRALIZED RIP POSSIBLE/IMPOSSIBLE

Fig. 23

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依頼元	①
用紙サイズ	②
カラー／白黒	③
印刷部数	④
原稿タイプ	⑤
画質モード	⑥
プリンタモード	⑦
色変換モード	⑧
片面／両面	⑨
拡大／等倍／縮小	⑩
Nアップ指定	⑪
排出先指定	⑫
スプールオプション	⑬
RIP済データ保存	⑭
差し込み印刷	⑮
色変換(プロファイル)指定	⑯
カバーページ	⑰
用紙種類	⑱
その他(時刻指定など)	⑲

印刷オプション
print option

Fig. 23

- ① REQUESTER
- ② PAPER SIZE
- ③ COLOR/BLACK-AND-WHITE
- ④ PRINTED NUMBER
- ⑤ DOCUMENT TYPE
- ⑥ PICTURE QUALITY MODE
- ⑦ PRINTER MODE
- ⑧ COLOR CONVERSION MODE
- ⑨ SINGLE/DOUBLE SIDES
- ⑩ MAGNIFY/EQUAL/REDUCE
- ⑪ N-UP DESIGNATION
- ⑫ DESTINATION OF DISCHARGE
- ⑬ SPOOL OPTION
- ⑭ RIP PROCESSED DATA STORAGE
- ⑮ MERGING PRINT
- ⑯ COLOR CHANGE (PROFILE) DESIGNATION
- ⑰ COVER PAGE
- ⑱ PAPER KIND
- ⑲ OTHERS (TIME DESIGNATION)

Fig. 24

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Fig. 24

- ① REQUESTER
- ② RIP STATUS
- ③ COLOR/BLACK-AND-WHITE
- ④ PICTURE QUALITY MODE
- ⑤ PRINTER MODE
- ⑥ PAPER SIZE
- ⑦ NUMBER OF PRINTS TO BE PROCESSED
- ⑧ RIP PAGE
- ⑨ RIP TIME
- ⑩ START TIME
- ⑪ FILE SIZE
- ⑫ PRESENCE/ABSENCE OF COVER PAGE
- ⑬ PRESENCE/ABSENCE OF RIP-PROCESSED DATA
- ⑭ COLOR CONVERSION (PROFILE) DESIGNATION
- ⑮ DECENTRALIZED RIP

Fig. 25

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処理種別(RIP／印刷)	①
課金先(依頼元)	②
カラー／白黒	③
用紙サイズ	④
処理部数	⑤
ページ数	⑥
カバーページ有／無	⑦
用紙種類	⑧
片面／両面	⑨
分散RIP	⑩

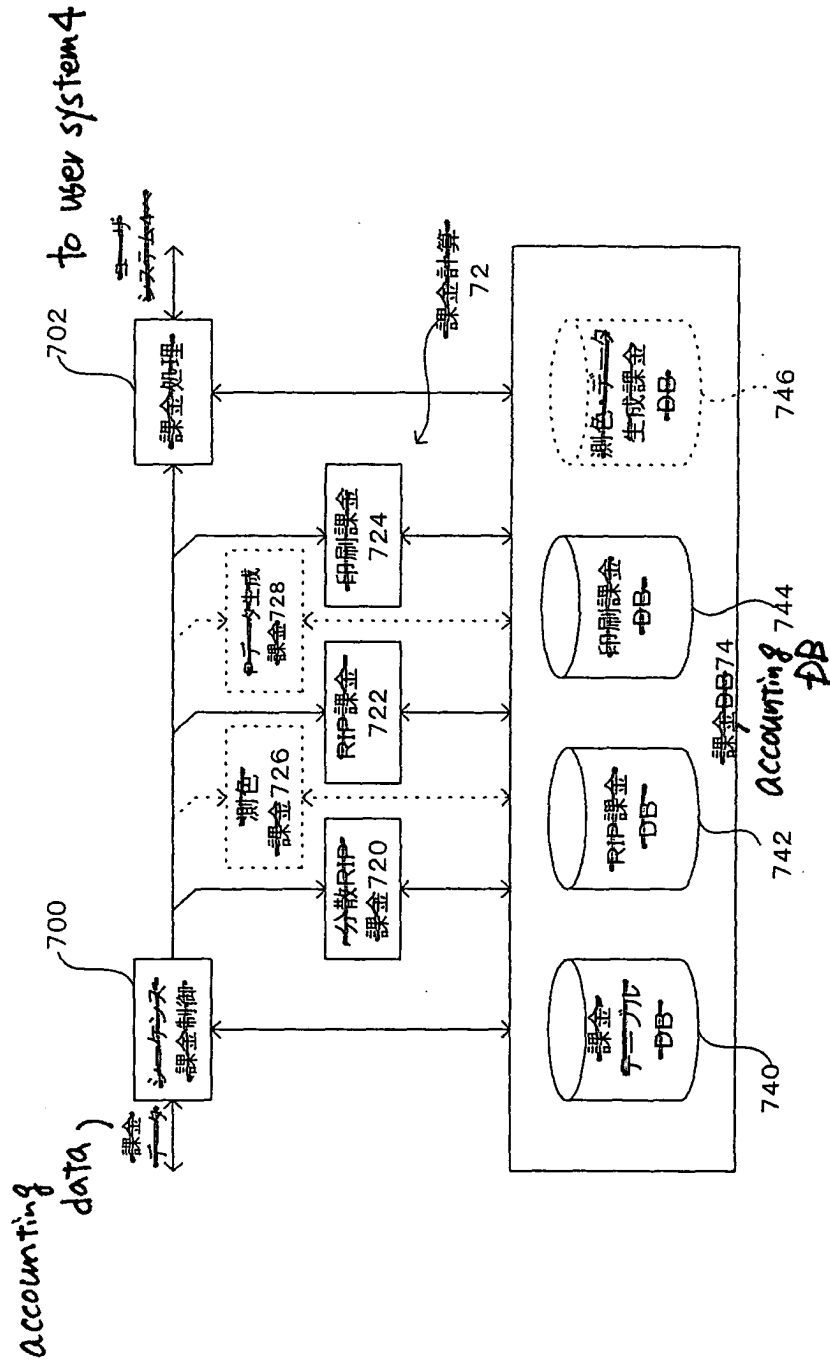
印刷データ

print data

Fig. 25

- ① PROCESSING KIND (RIP/PRINT)
- ② ACCOUNTING TARGET (REQUESTER)
- ③ COLOR/WHITE-AND-BLACK
- ④ PAPER SIZE
- ⑤ NUMBER OF PRINTS TO BE PROCESSED
- ⑥ PAGE NUMBER
- ⑦ PRESENCE/ABSENCE OF COVER PAGE
- ⑧ PAPER KIND
- ⑨ SINGLE/DOUBLE SIDES
- ⑩ DECENTRALIZED RIP

Fig. 26



課金プログラム 70
accounting program

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Fig. 26

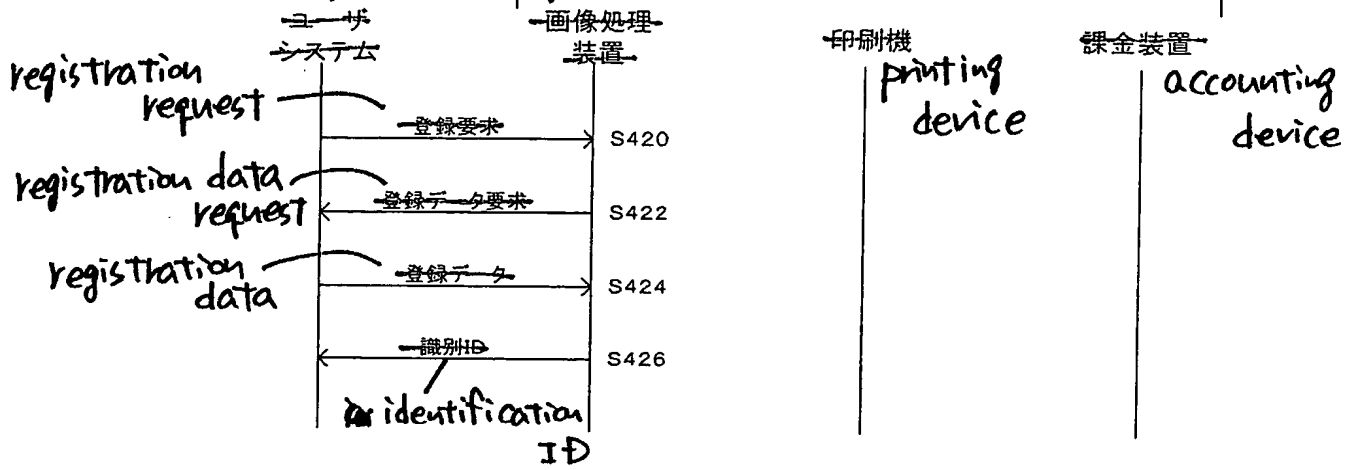
700 SEQUENCE/ACCOUNTING CONTROL SECTION
702 ACCOUNTING PROCESS SECTION
720 DECENTRALIZED RIP ACCOUNTING SECTION
722 RIP ACCOUNTING SECTION
724 PRINT ACCOUNTING SECTION
726 COLORIMETRY ACCOUNTING SECTION
728 P-DATA GENERATION ACCOUNTING SECTION
740 ACCOUNTING TABLE DB
742 RIP ACCOUNTING DB
744 PRINT ACCOUNTING DB
746 COLORIMETRY/DATA GENERATION ACCOUNTING DB

Fig. 27
user system

image processing device

print system
印刷システム

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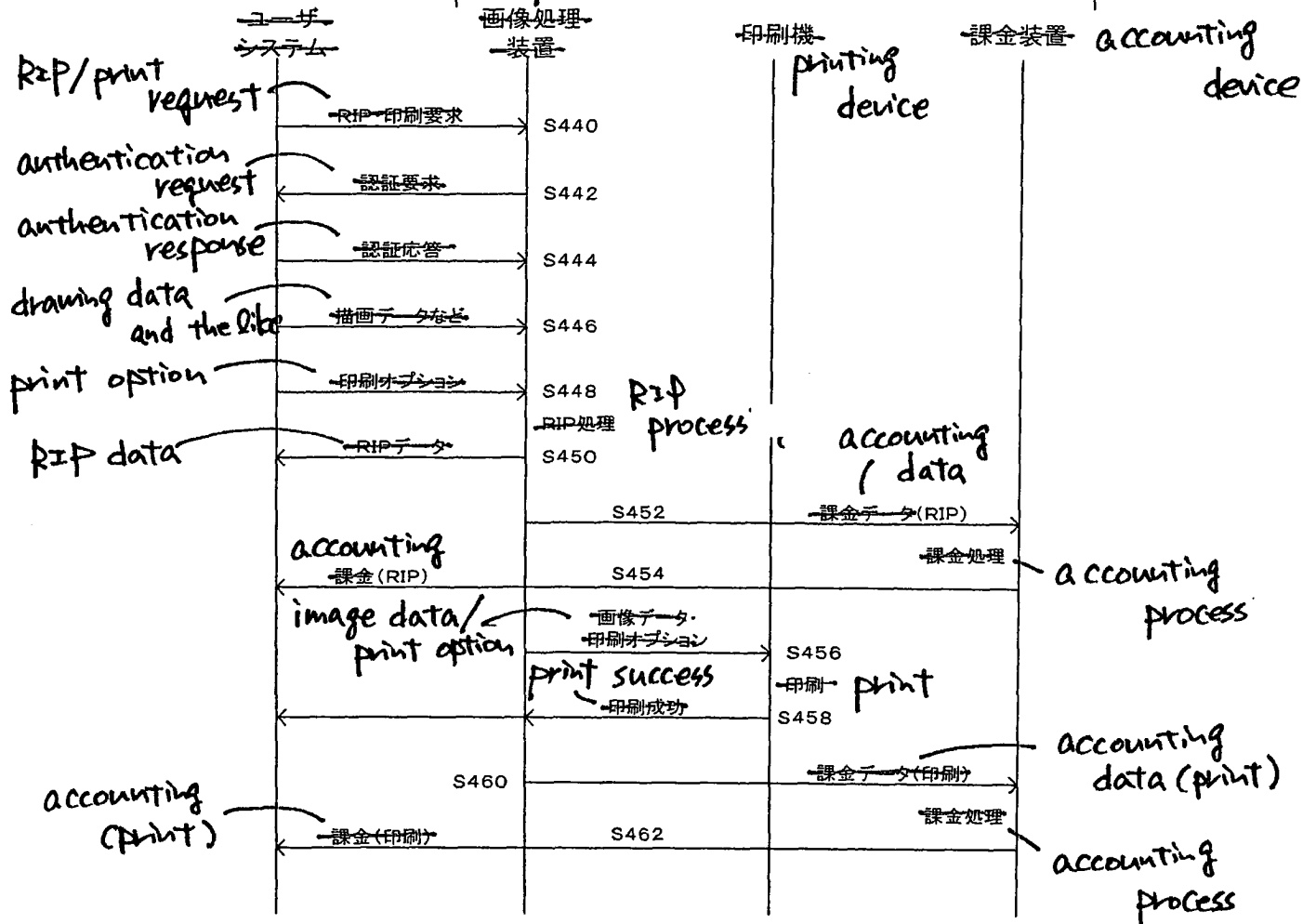
登録(S42)
/
registration

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Fig. 28
user system

image processing device

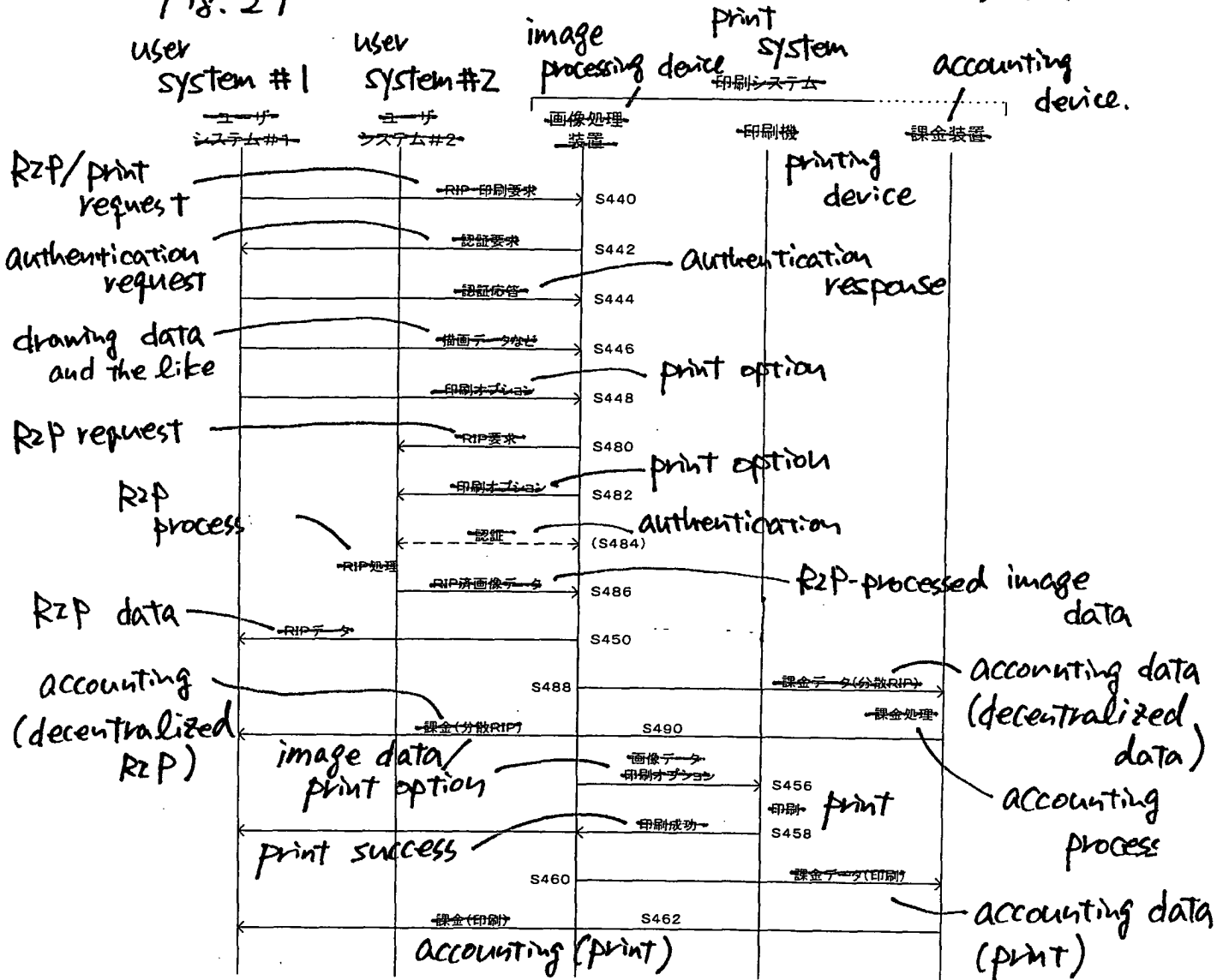
print system



RIP・印刷・課金 (S44)

RIP/Print/Accounting

Fig. 29



分散RIP-印刷-課金(S48)

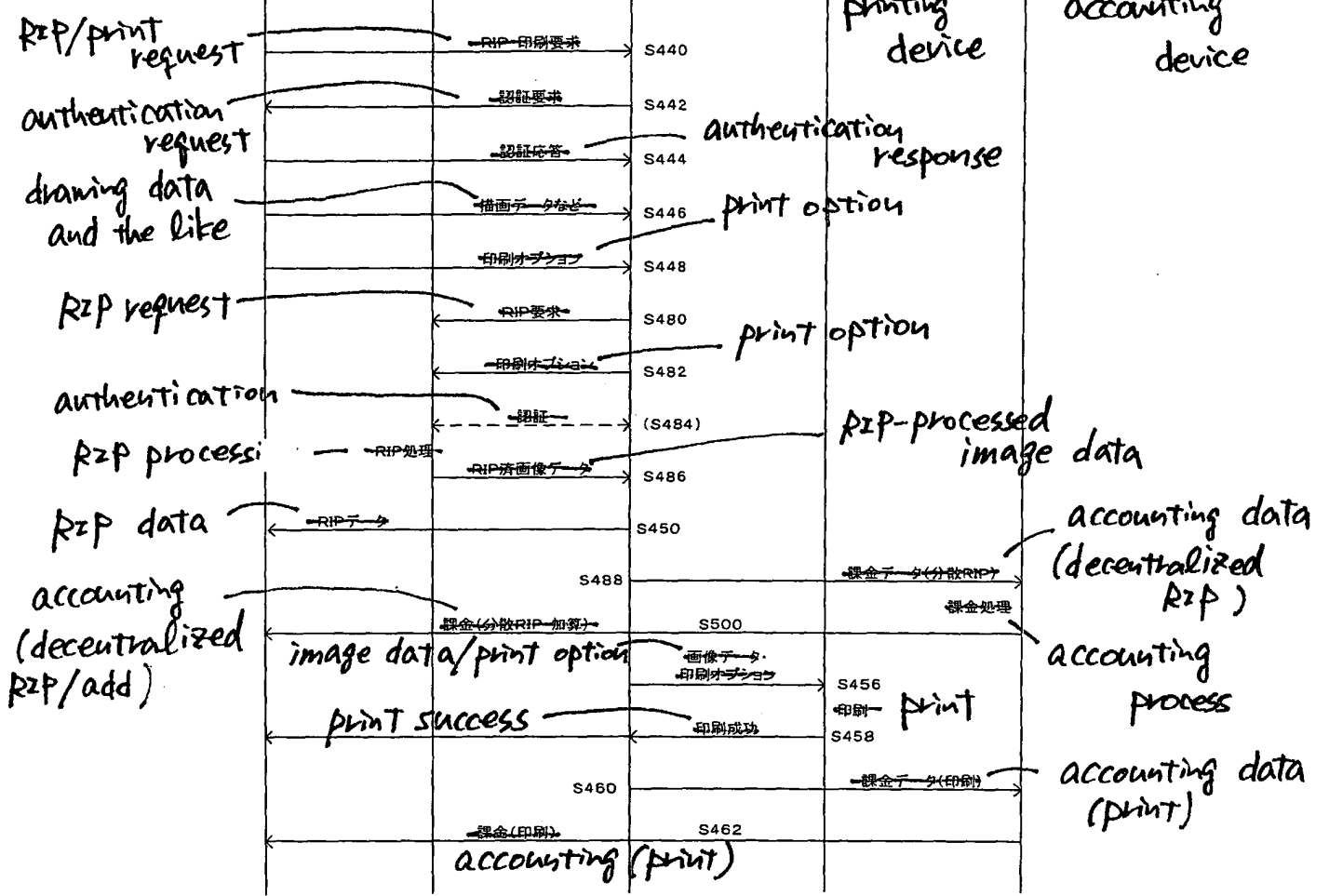
decentralized RIP/print/accounting

Fig. 30
user
system #1

user
system #2
システム#2

image processing
device
print system
/

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分散RIP・印刷・割り増し課金(S50)

decentralized RIP/print/
extra accounting

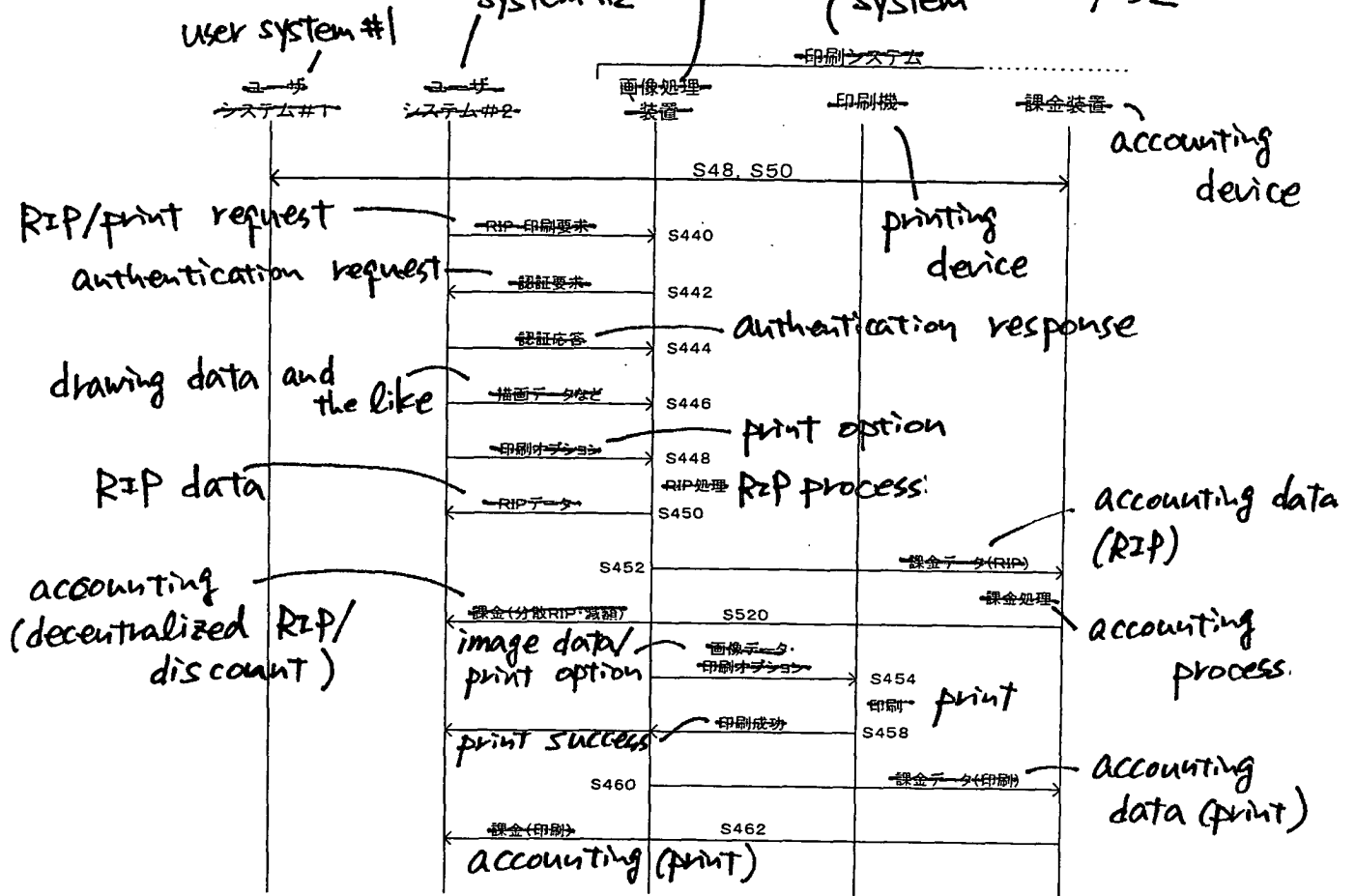
〔図3-1〕

Fig. 31

image
processing
device

print
(system)

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分散RIP印刷割引引き課金(S52)
decentralized RIP/print/discount

-(図32)-

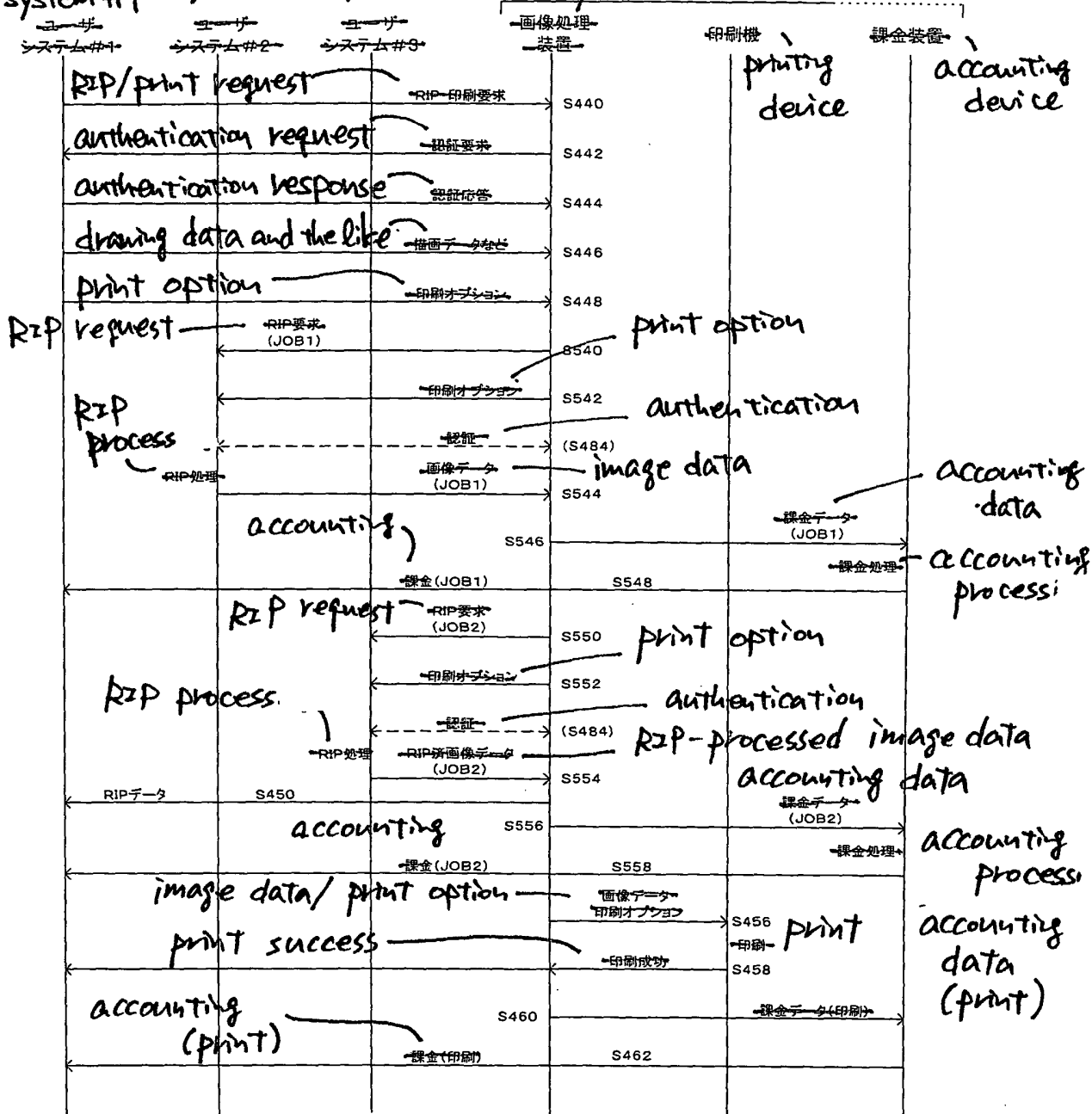
Fig. 32
user system #1

user system #2

user system #3

image processing device (print system)

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分散RIP印刷-割り増し課金(S54)

decentralized RIP/print/extra accounting

Fig. 33
user system

accounting information

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Received decentralized RIP

ユーザシステム		課金情報
#1	通常RIP	normal RIP
	要求した分散RIP	requested decentralized RIP
	受け入れた分散RIP	JOB-ii
	印刷 print	
normal #2	通常RIP	JOB-i
	要求した分散RIP	JOB-ii, JOB-iii
	受け入れた分散RIP	
	印刷 print	JOB-i, JOB-ii, JOB-iii
#2	通常RIP	normal
	要求した分散RIP	JOB-iii
	受け入れた分散RIP	
	印刷 print	

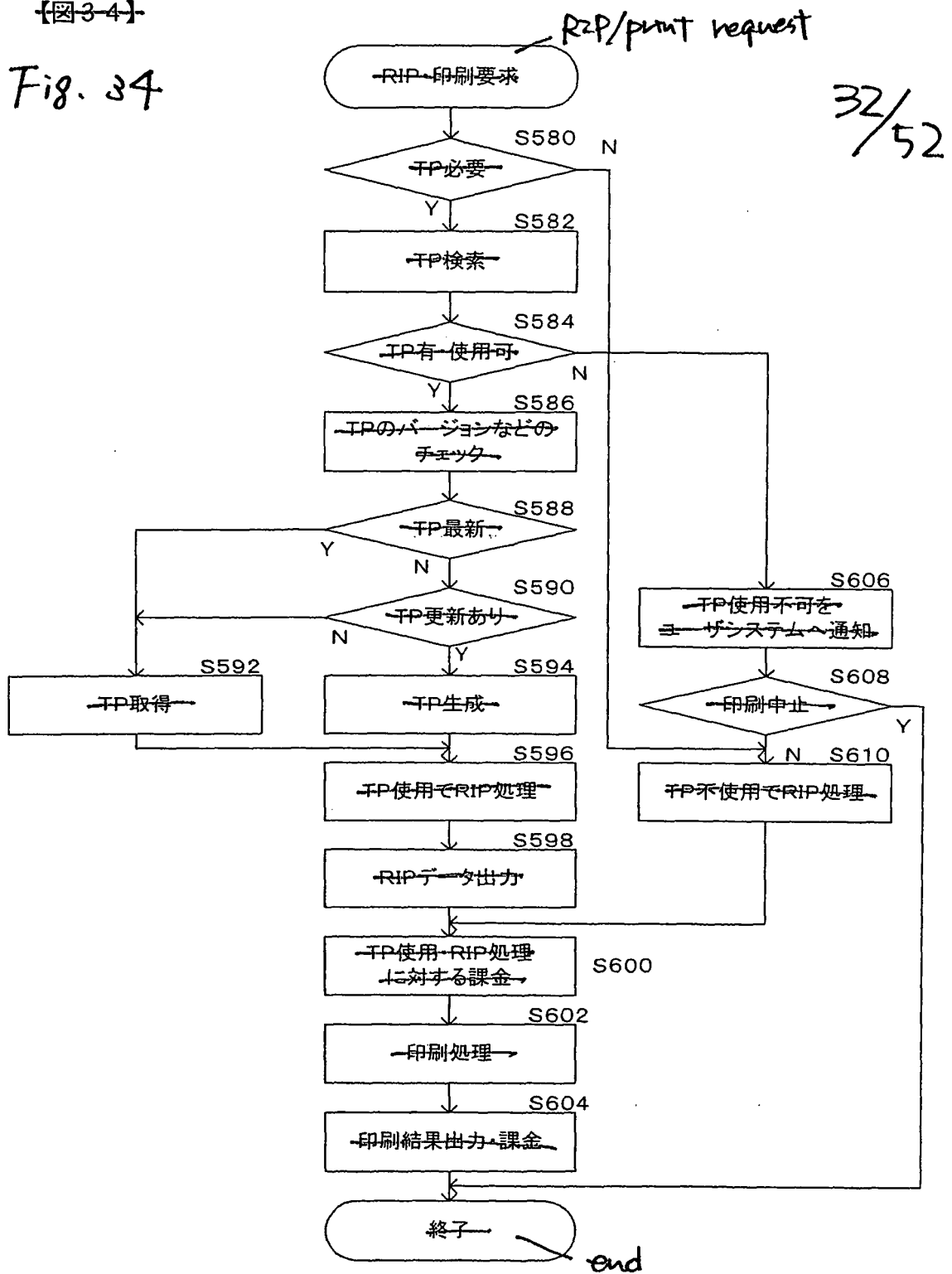
target of extra accounting

← 割増し課金対象

← 割引き課金対象

target of discount.

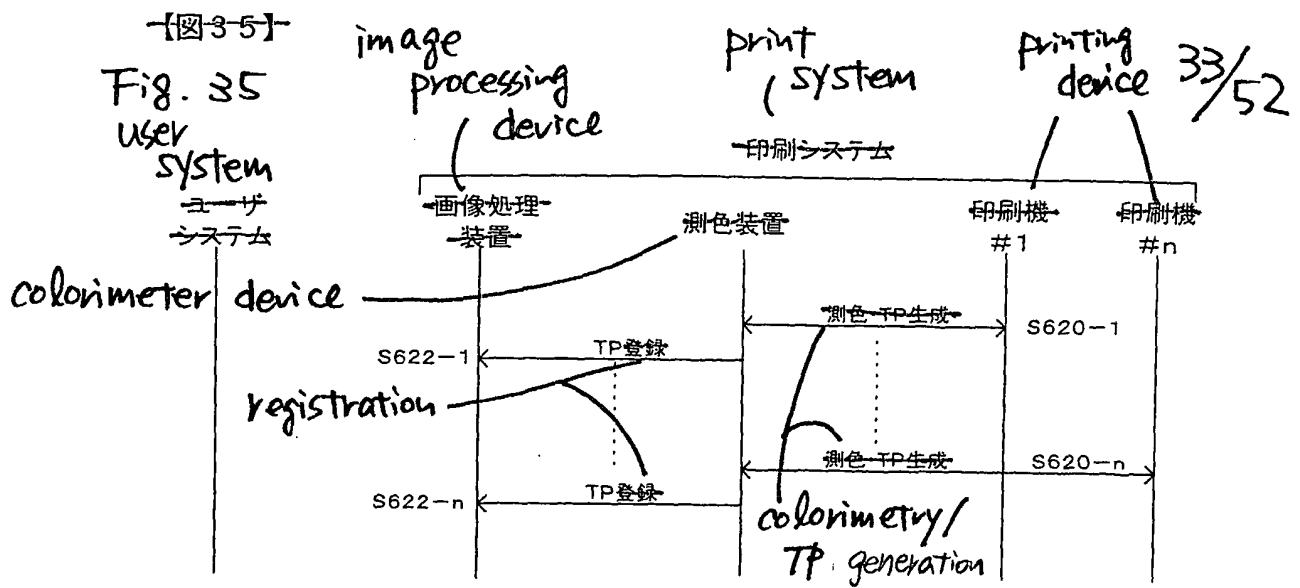
Fig. 34



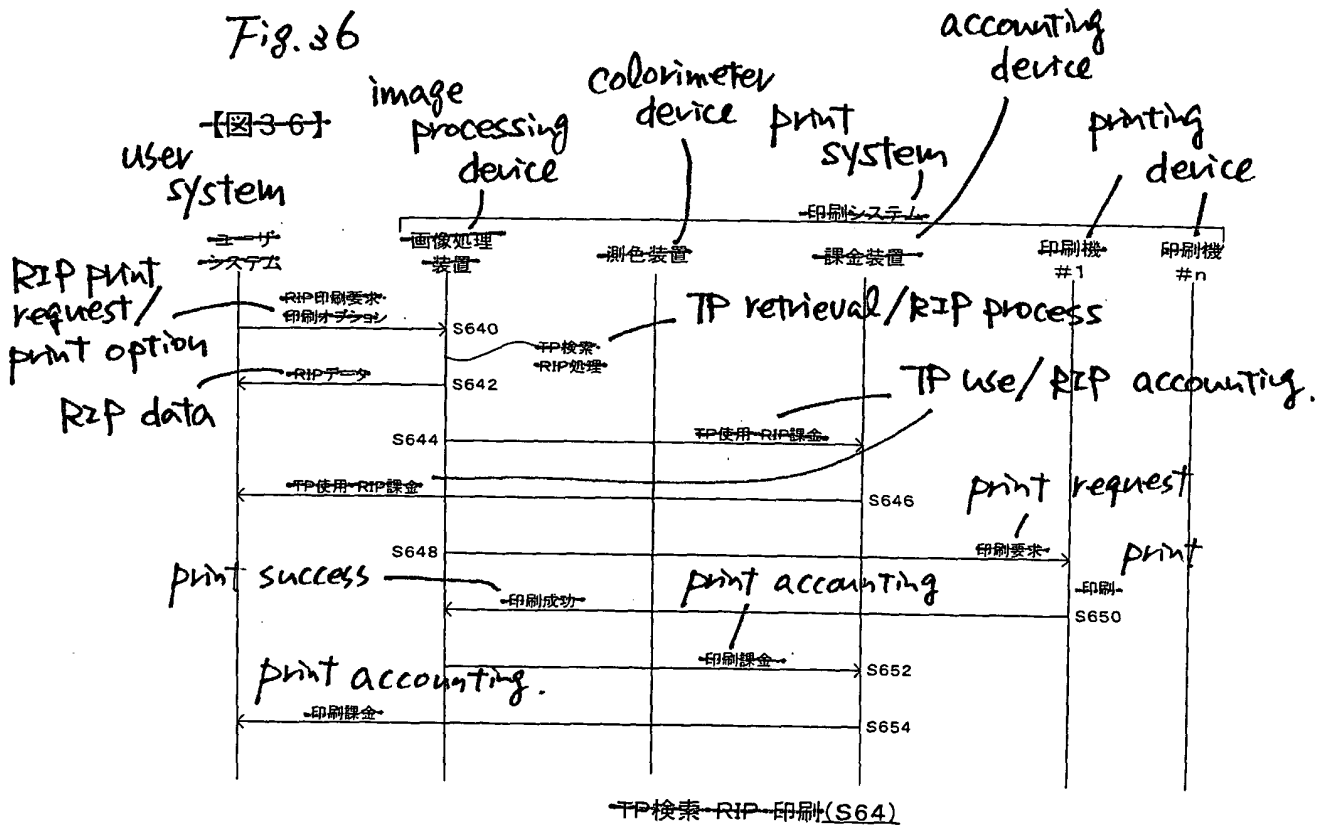
TP検索・RIP・印刷(S58)
TP retrieval / RIP / print

Fig. 34

S580 TP IS NECESSARY ?
S582 TP RETRIEVAL
S584 TP EXISTS/IS AVAILABLE?
S586 CHECK TP VERSION
S588 LATEST TP ?
S590 TP HAS BEEN UPDATED ?
S592 TP ACQUISITION
S594 TP GENERATION
S596 RIP PROCESS USING TP
S598 OUTPUT RIP DATA
S600 ACCOUNT FOR TP USE/RIP PROCESS
S602 PRINT PROCESS
S604 OUTPUT PRINT RESULT/ACCOUNT
S606 INFORM USER SYSTEM OF UNAVAILABILITY OF TP
S608 PRINT IS TERMINATED?
S610 RIP PROCESSING WITHOUT TP



TP 生成登録 (S62)
TP generation/registration



TP 検索 RIP 印刷 (S64)

TP retrieval/RIP/print

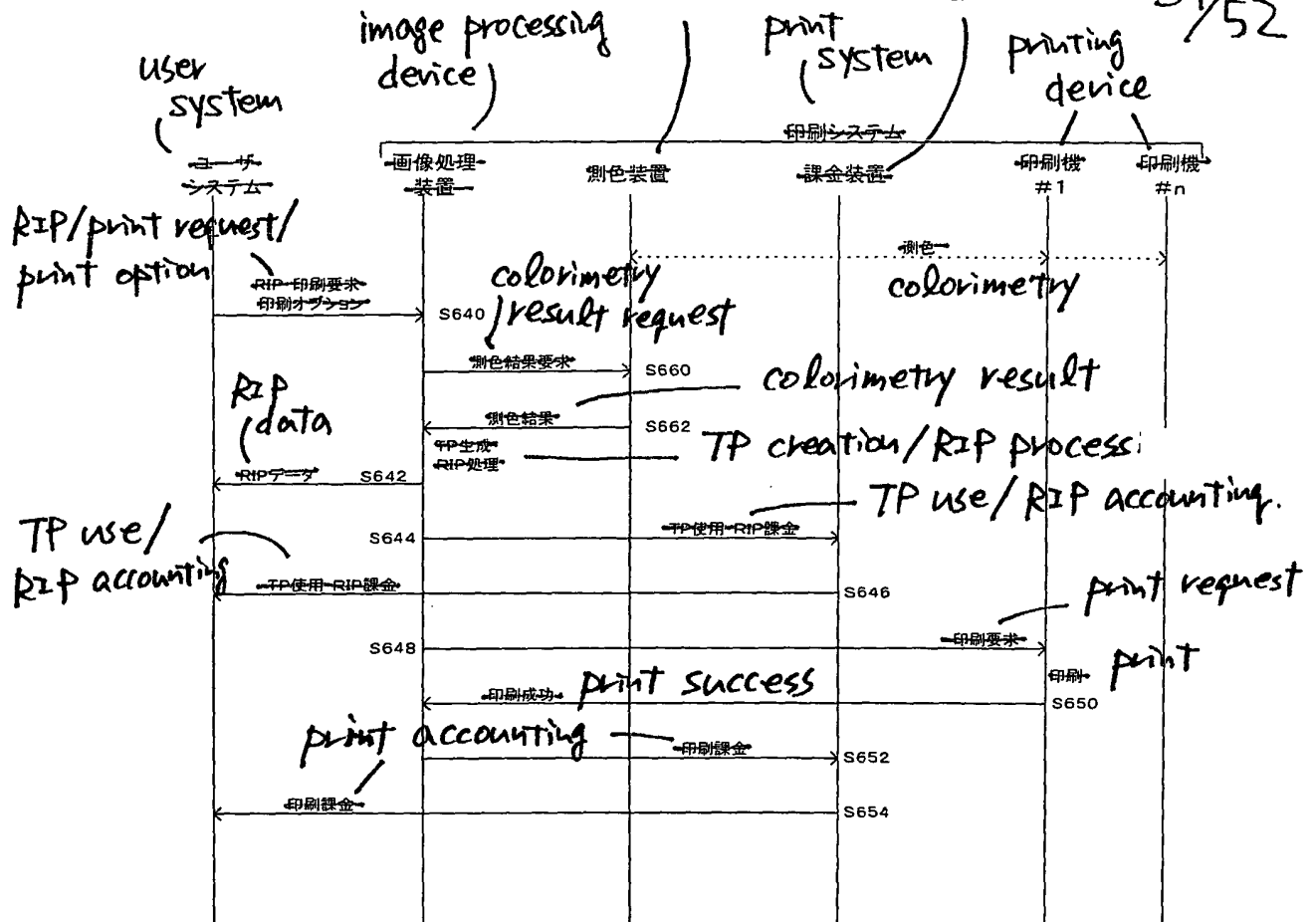
【図3-7】

Fig. 37

colorimeter device

accounting device

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TP使用RIP印刷(S66)

RIP (with TP/print)

【図3-8】

Fig. 38
user system

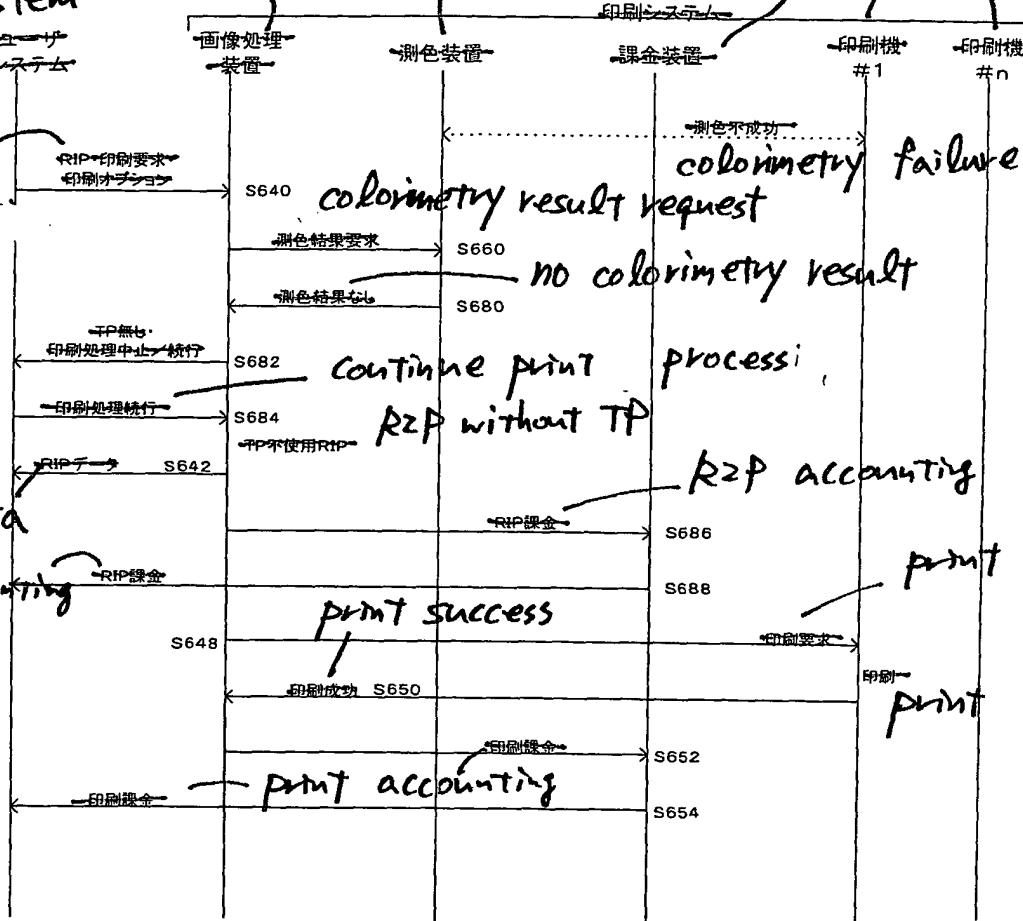
image processing device / 画像処理装置
colorimeter device / 測色装置
print system / 印刷システム
accounting device / 課金装置
printing device / 印刷機 #1, #n

RIP/print request / print option

no TP / terminate print process / continue

RZP data

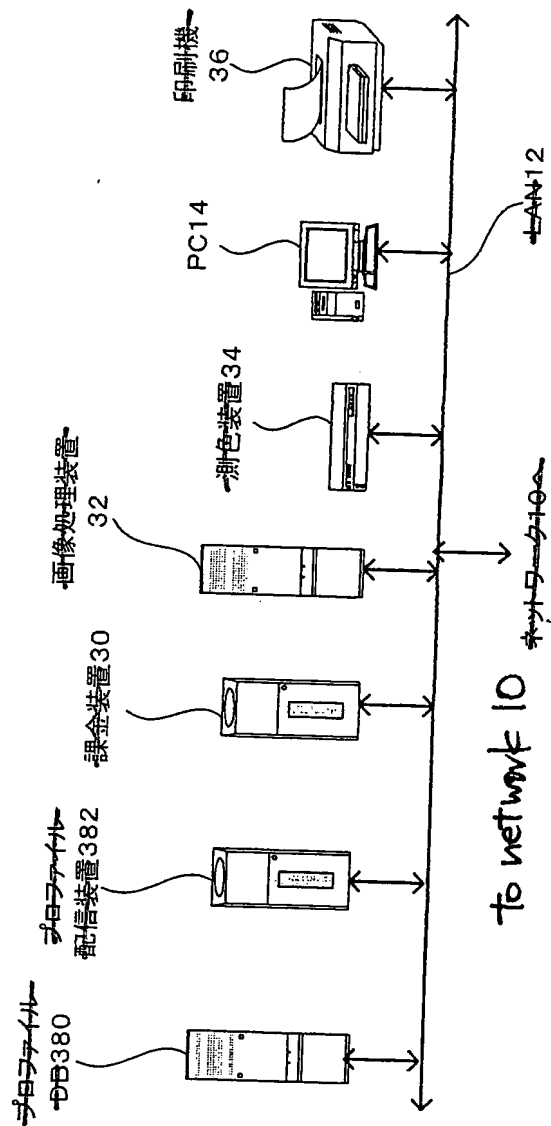
RZP accounting



TP不使用RIP印刷(S68)

RZP without TP/print

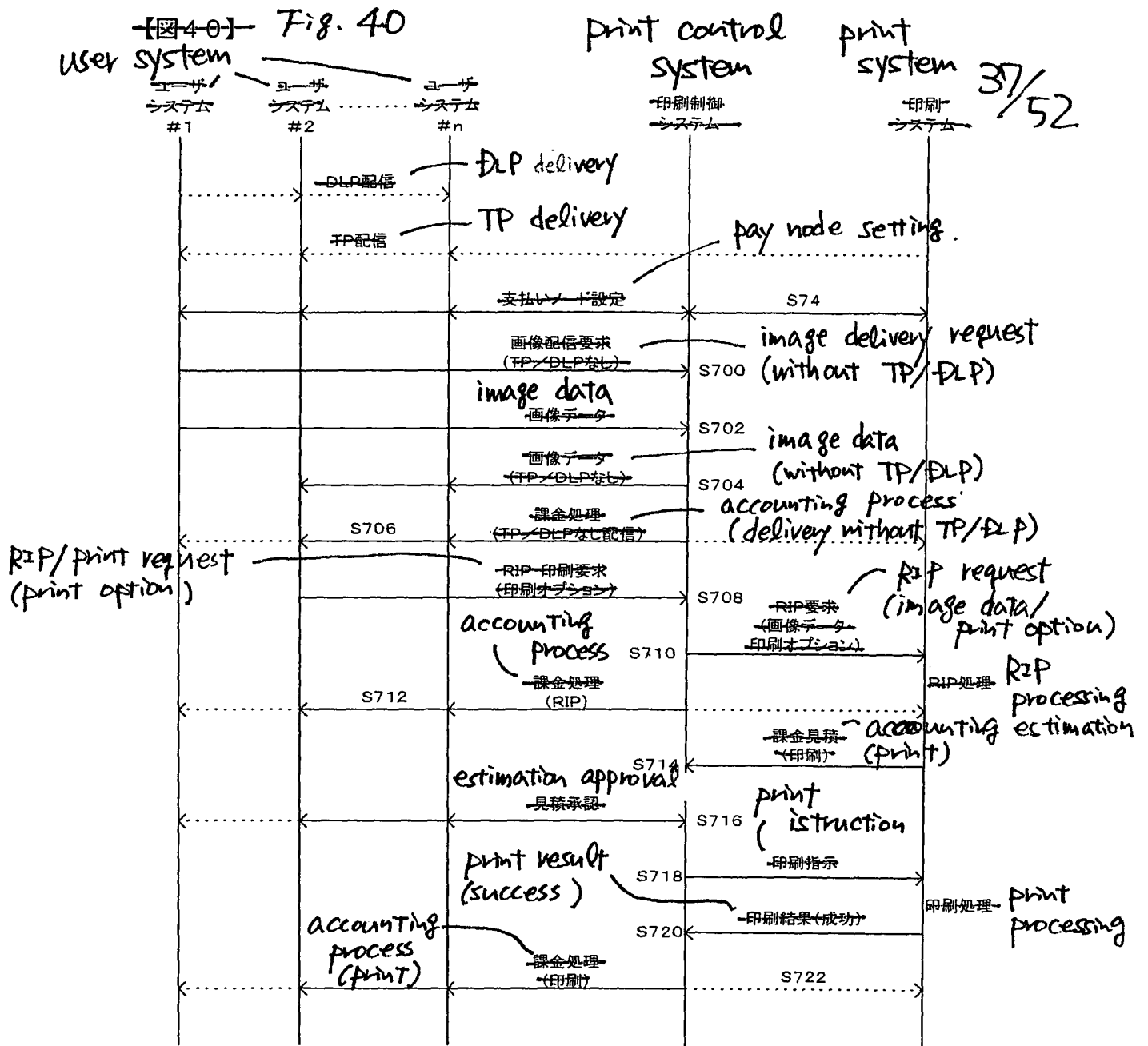
Fig. 39



印刷システム38

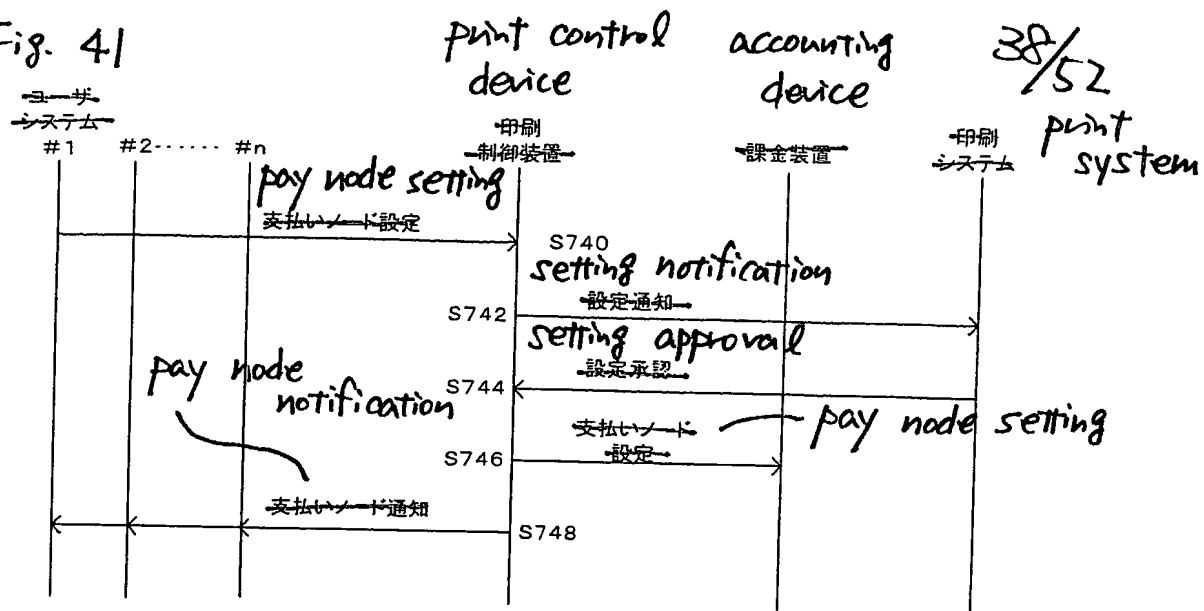
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【図40】 Fig. 40



【図41】

Fig. 41



支払いノード設定(S74)
pay node setting.

Fig. 42

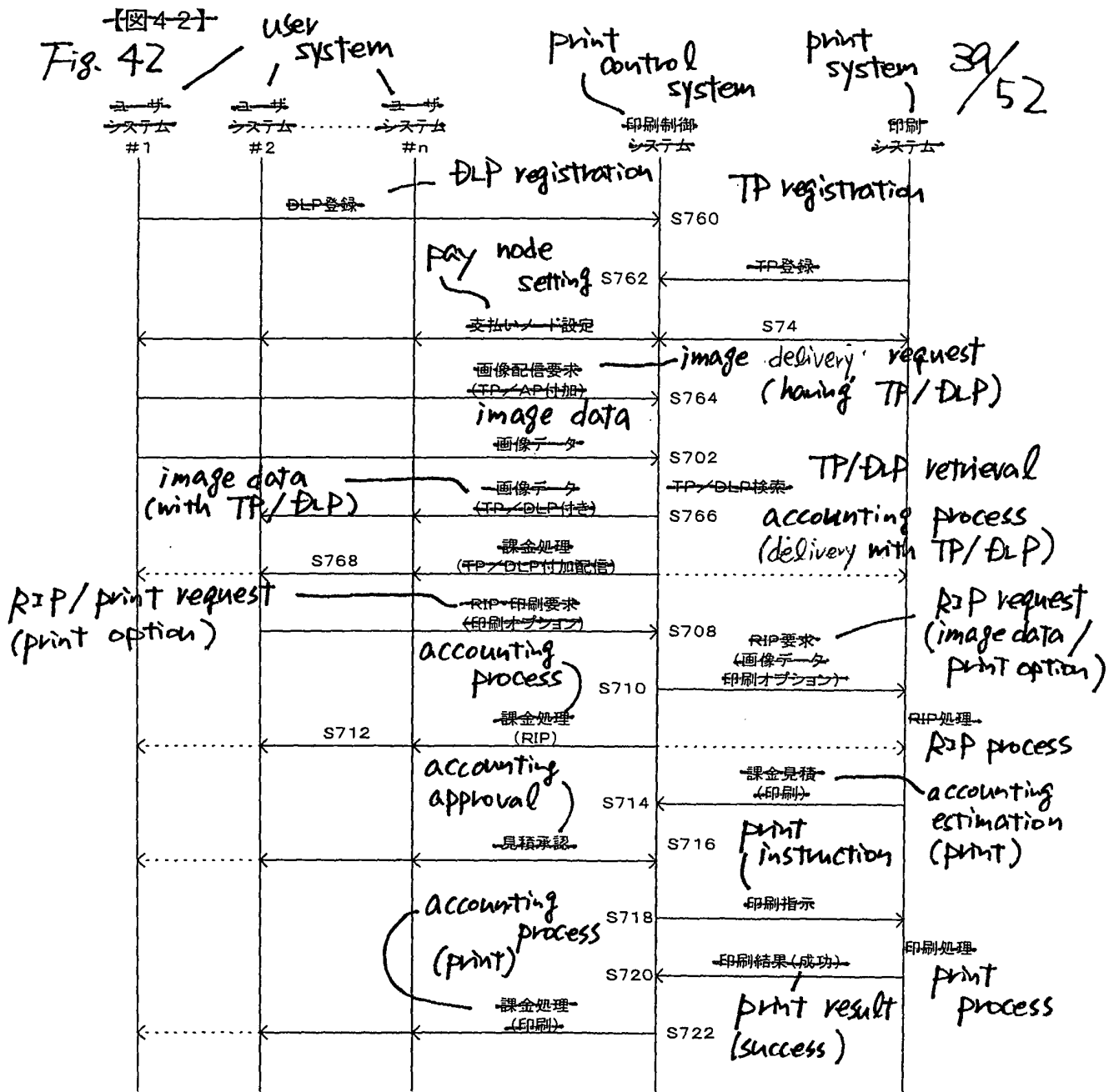
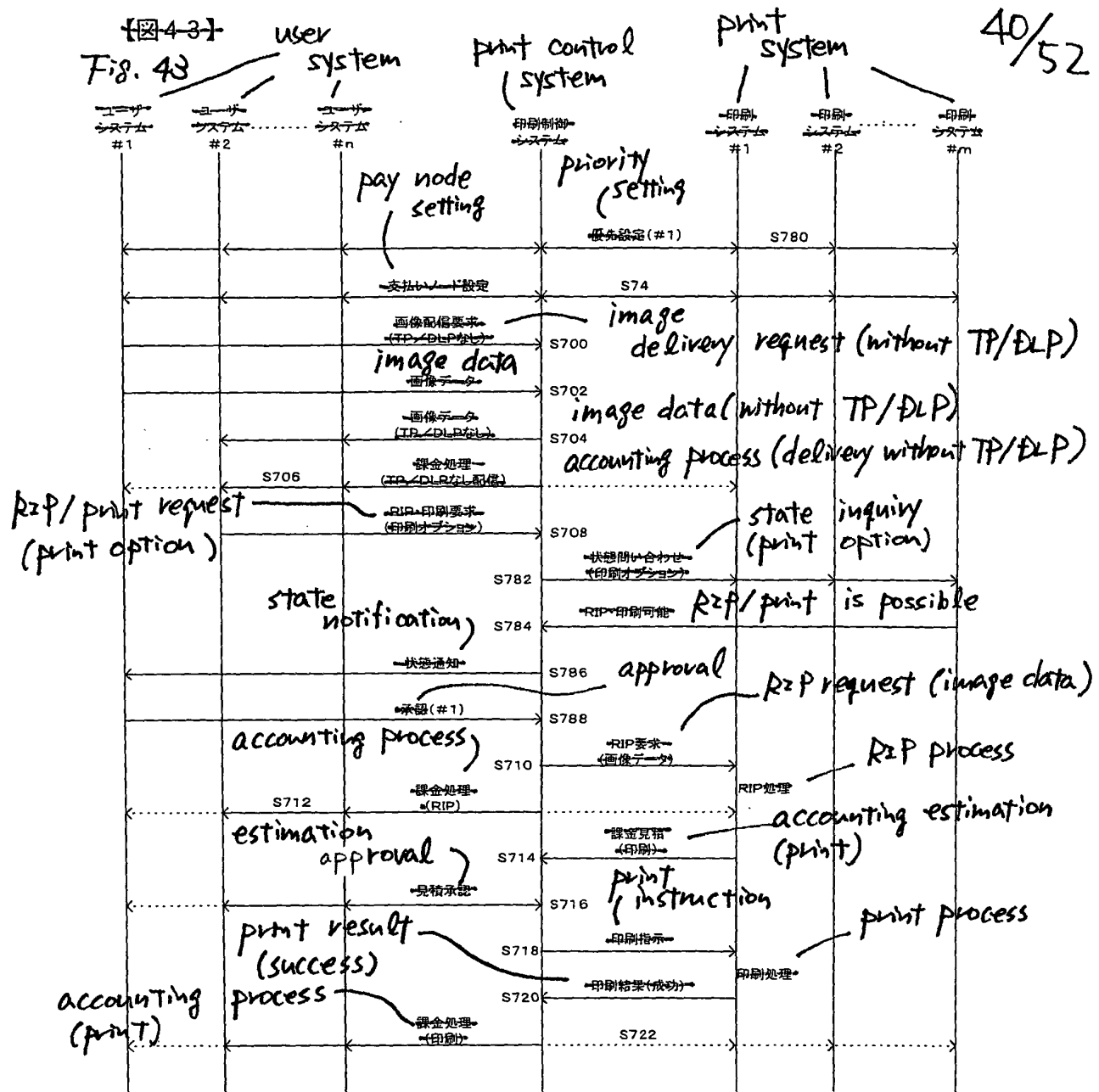


Fig. 43



TP/DLPなしデータ配信~印刷
(S78)

data delivery without TP/DLP ~ print

【図44】

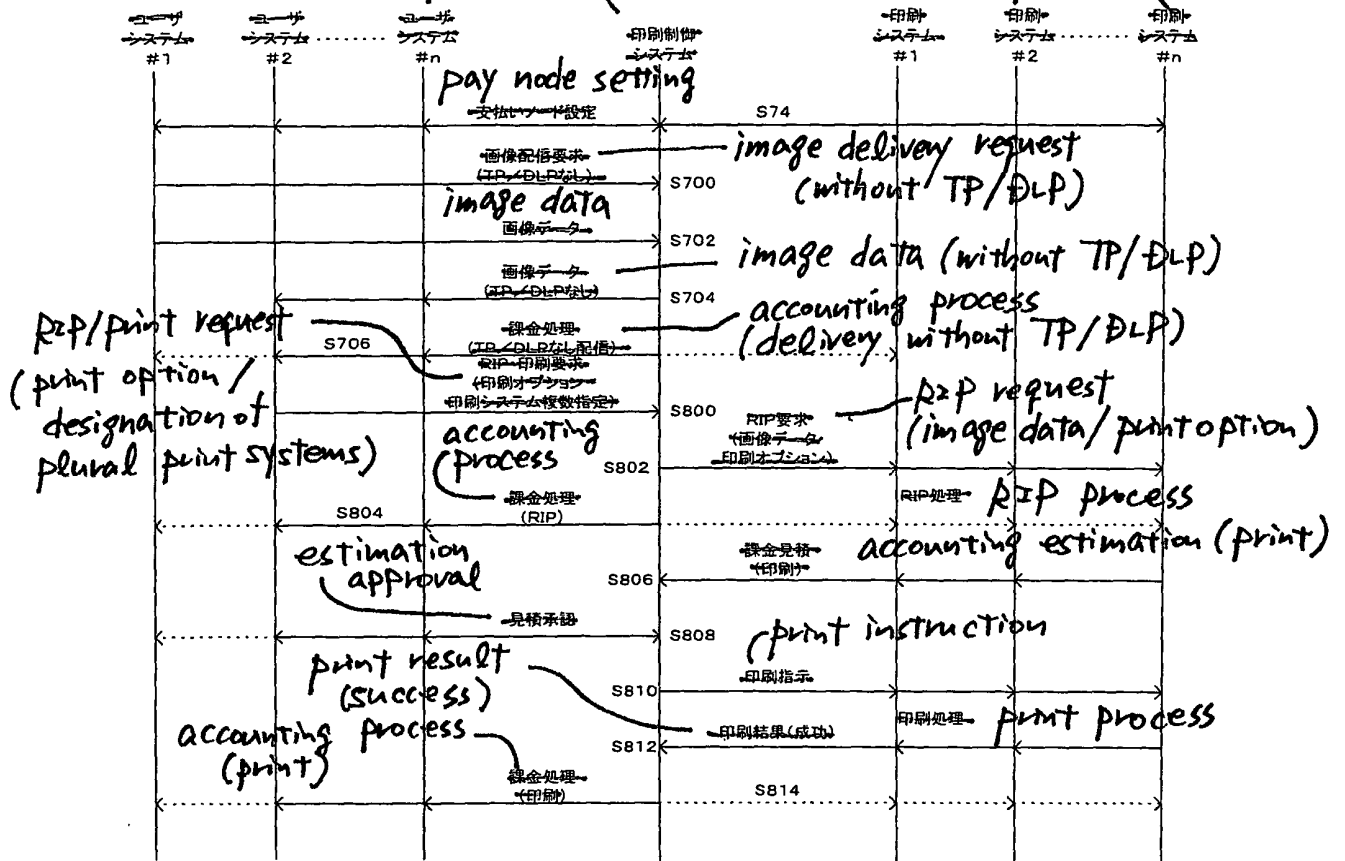
Fig. 44

user system

print control system

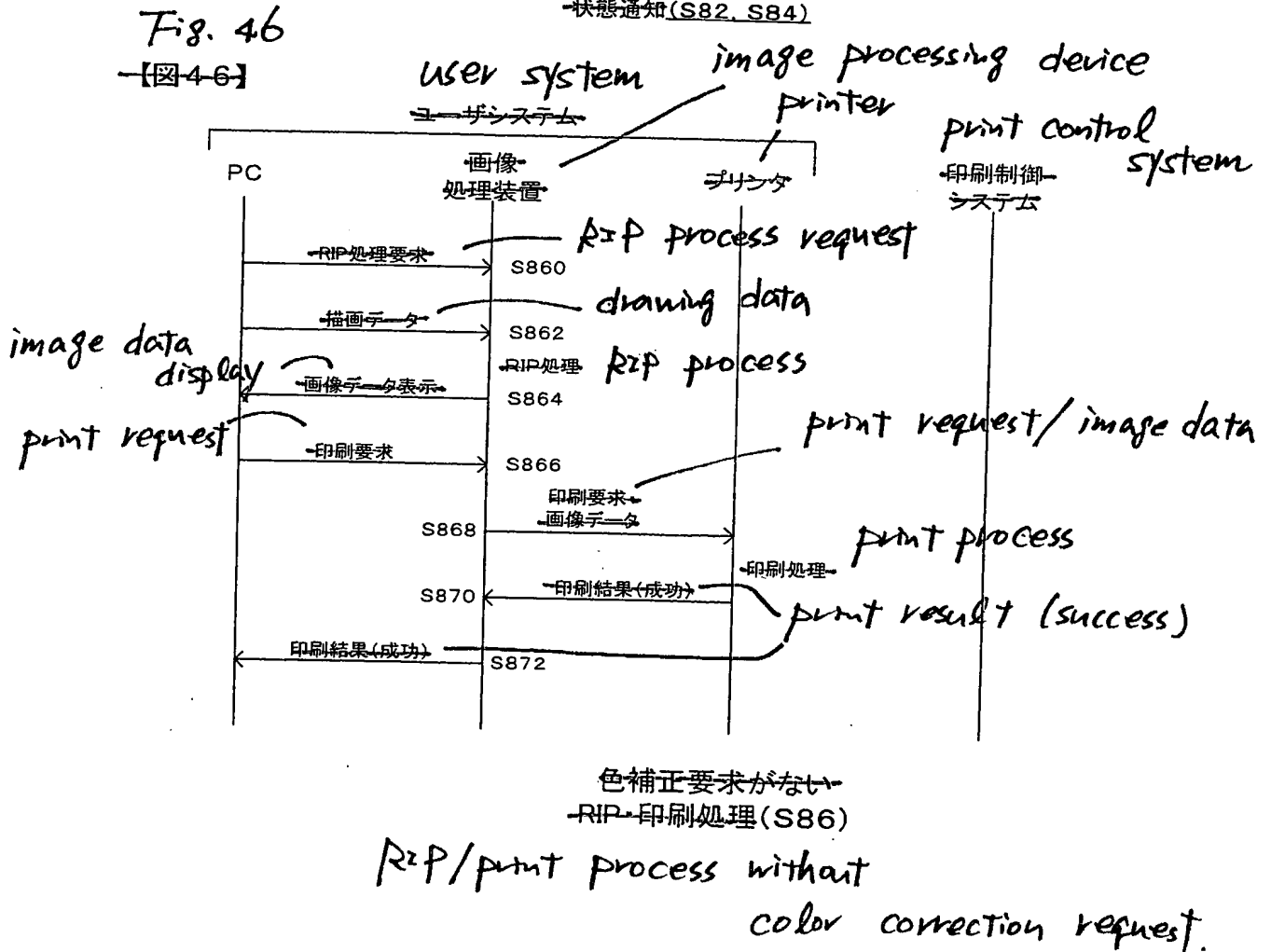
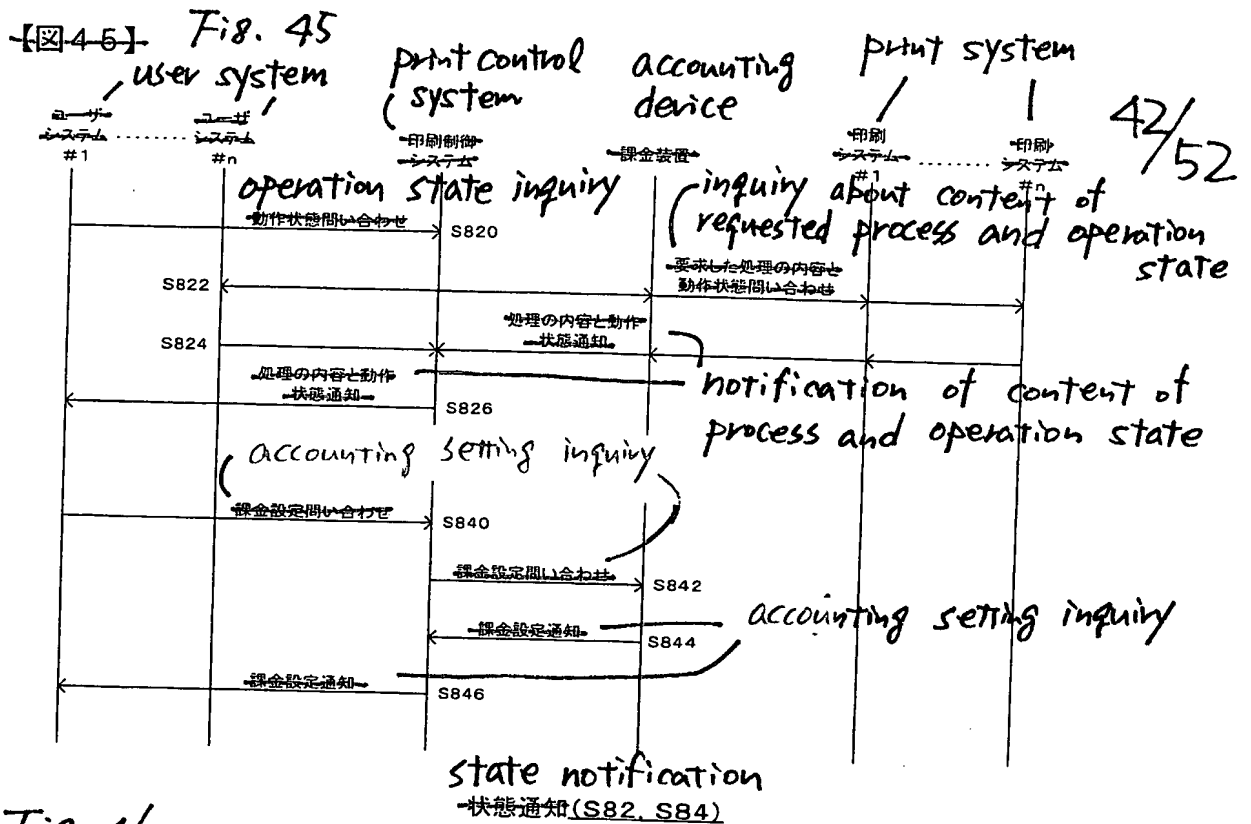
print system

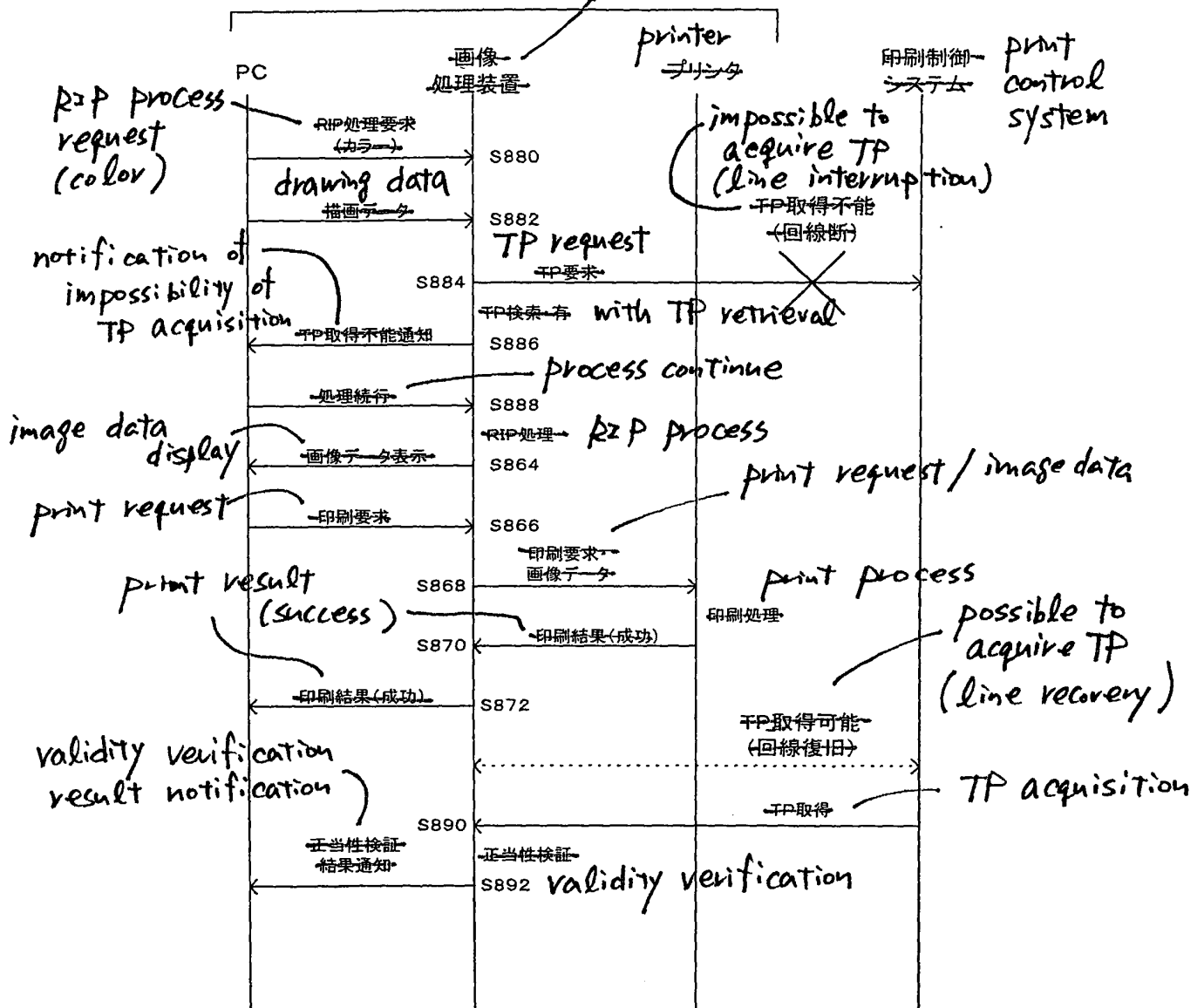
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TP/DLPなしデータ配信印刷 (S80)

data delivery without TP/DLP ~ print





色補正要求がある
RIP印刷処理 (S88)

RIP / print process with color correction request

user system

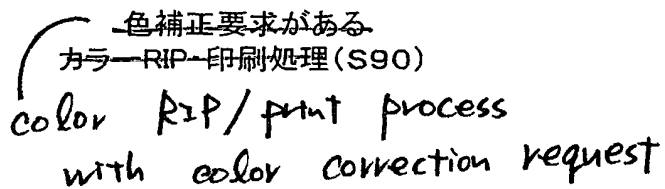


Fig. 49

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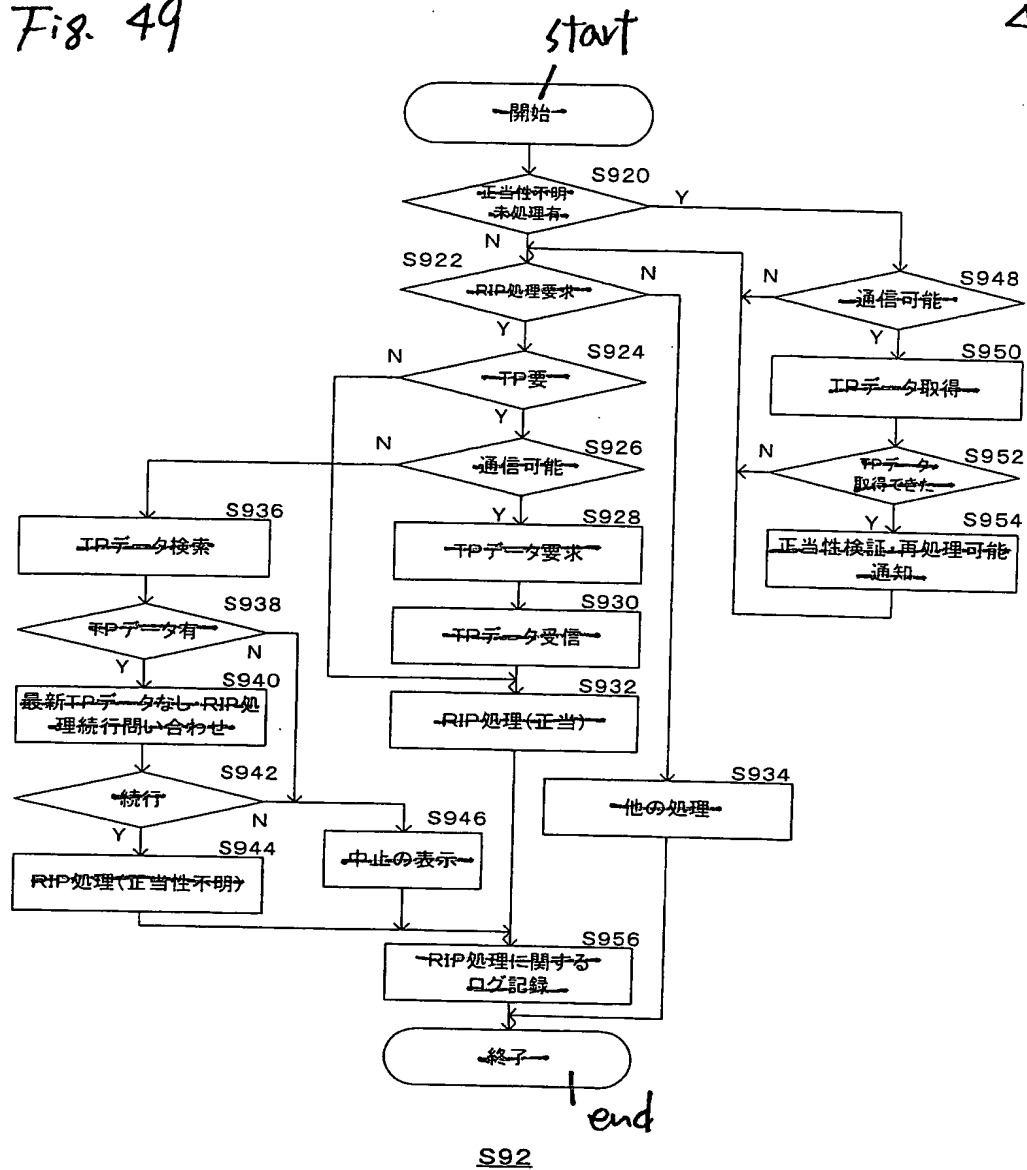
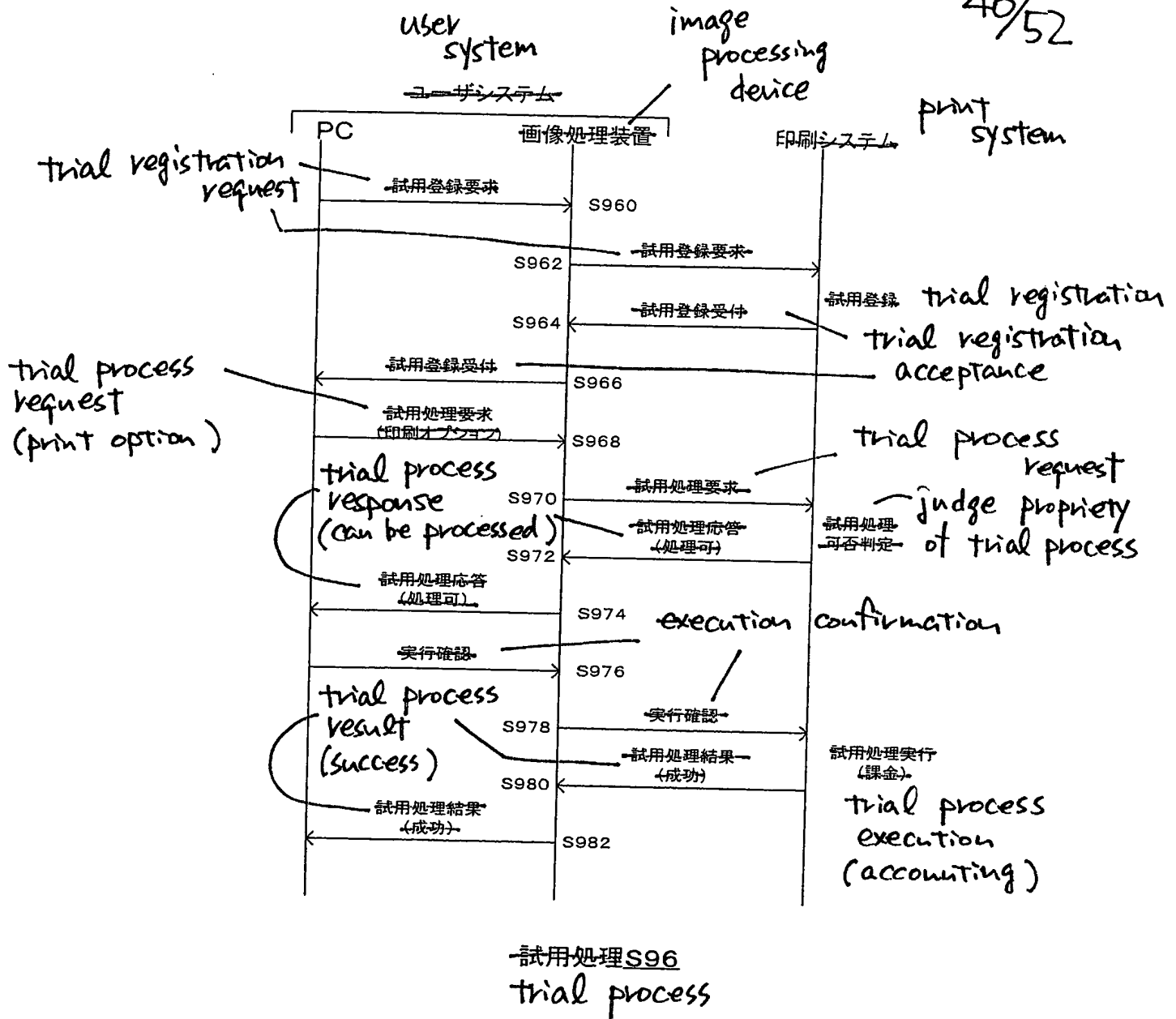
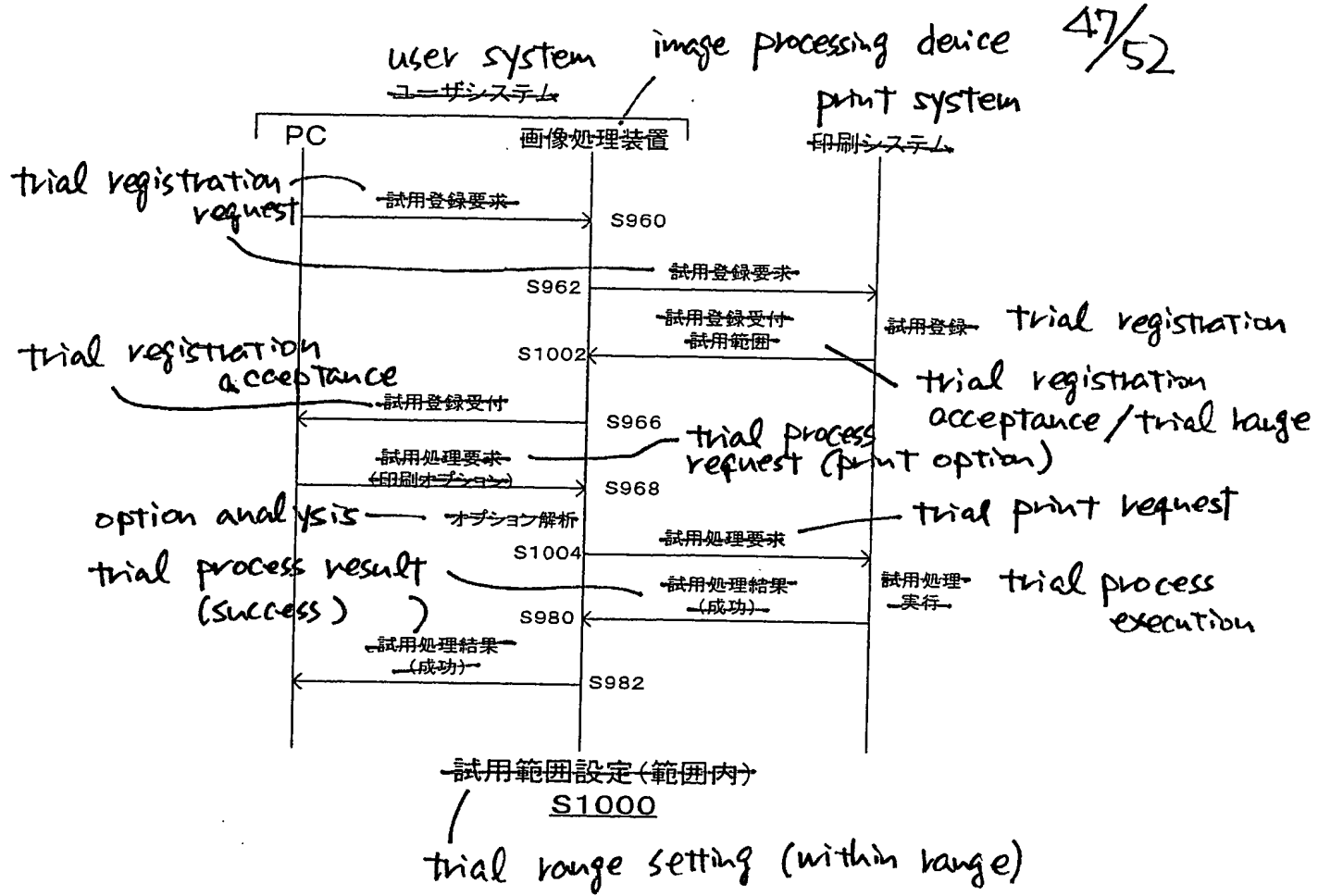


Fig. 49

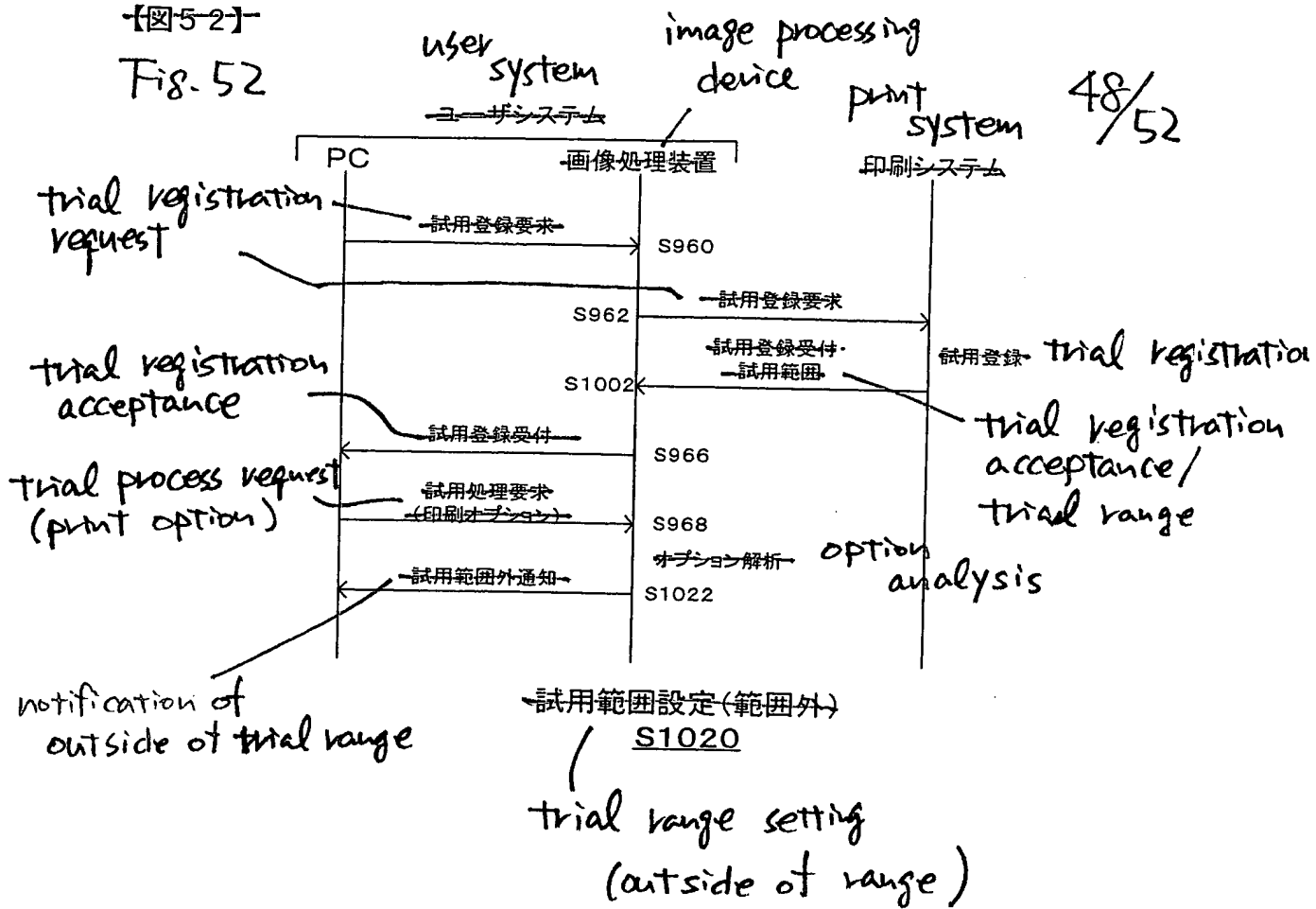
S920 VALIDITY IS UNKNOWN / THERE IS UNPROCESSED?
S922 RIP PROCESS IS REQUESTED?
S924 TP IS NECESSARY?
S926 COMMUNICATABLE?
S928 REQUEST TP DATA
S930 RECEIVE TP DATA
S932 RIP PROCESS (VALID)
S934 OTHER PROCESSES
S936 RETRIEVE TP DATA
S938 TP DATA EXISTS?
S940 THERE ISN'T LATEST TP DATA/ INQUIRE CONTINUATION OF RIP
PROCESS
S942 CONTINUE?
S944 RIP PROCESS (VALIDITY UNKNOWN)
S946 DISPLAY TERMINATION
S948 COMMUNICATABLE?
S950 ACQUIRE TP DATA
S952 TP DATA IS ACQUIRED?
S954 VERIFY VALIDITY / NOTIFY RE-PROCESSABLE
S956 RECORD LOG ON RIP PROCESS





【図5-2】

Fig. 52



【図53】

Fig. 53 user system image processing device

advertiser 49/52
(system)

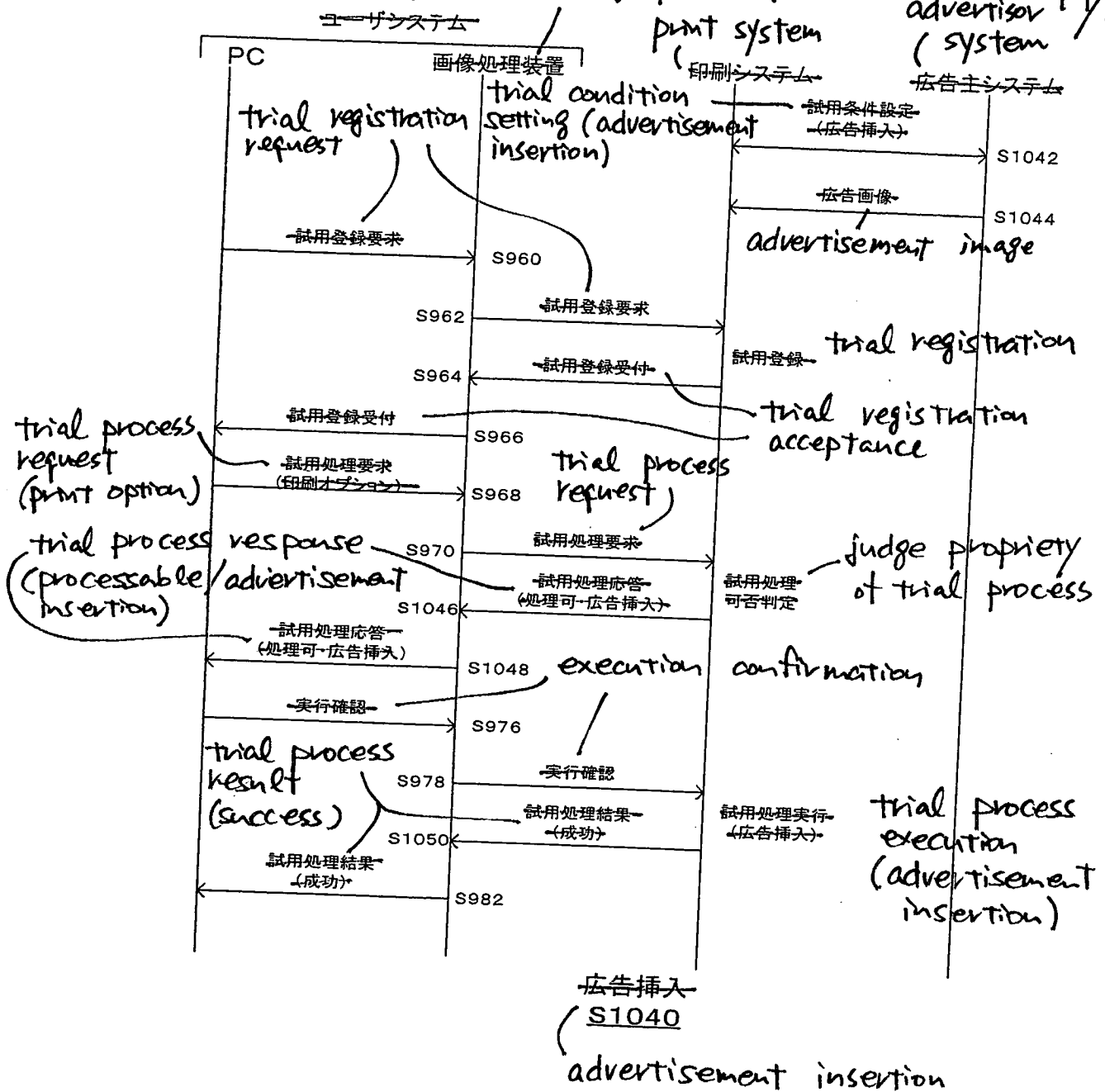
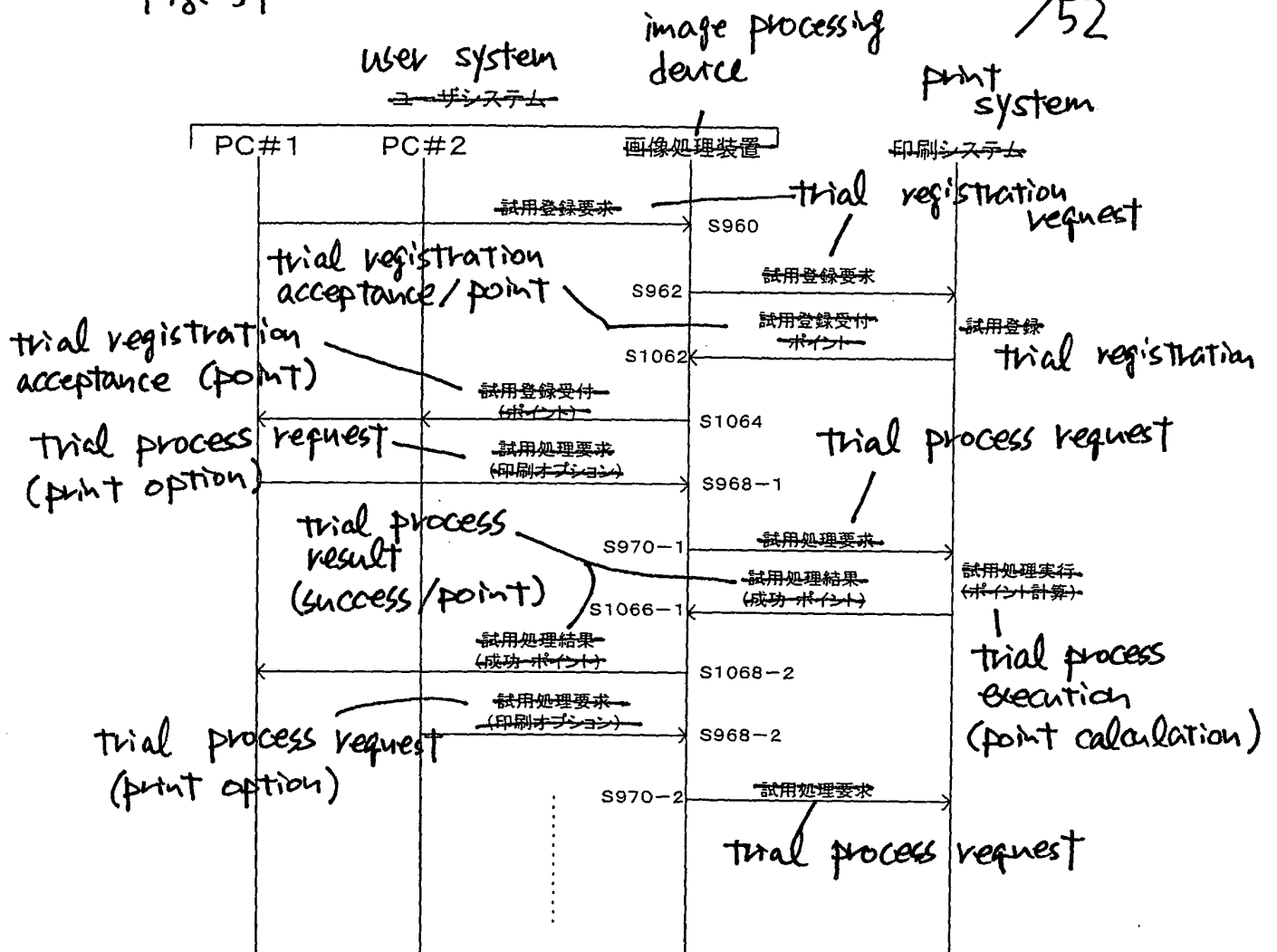


Fig. 54

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ポイント制(ポイント有)

S1060

point system (with point)

【図55】

Fig. 55

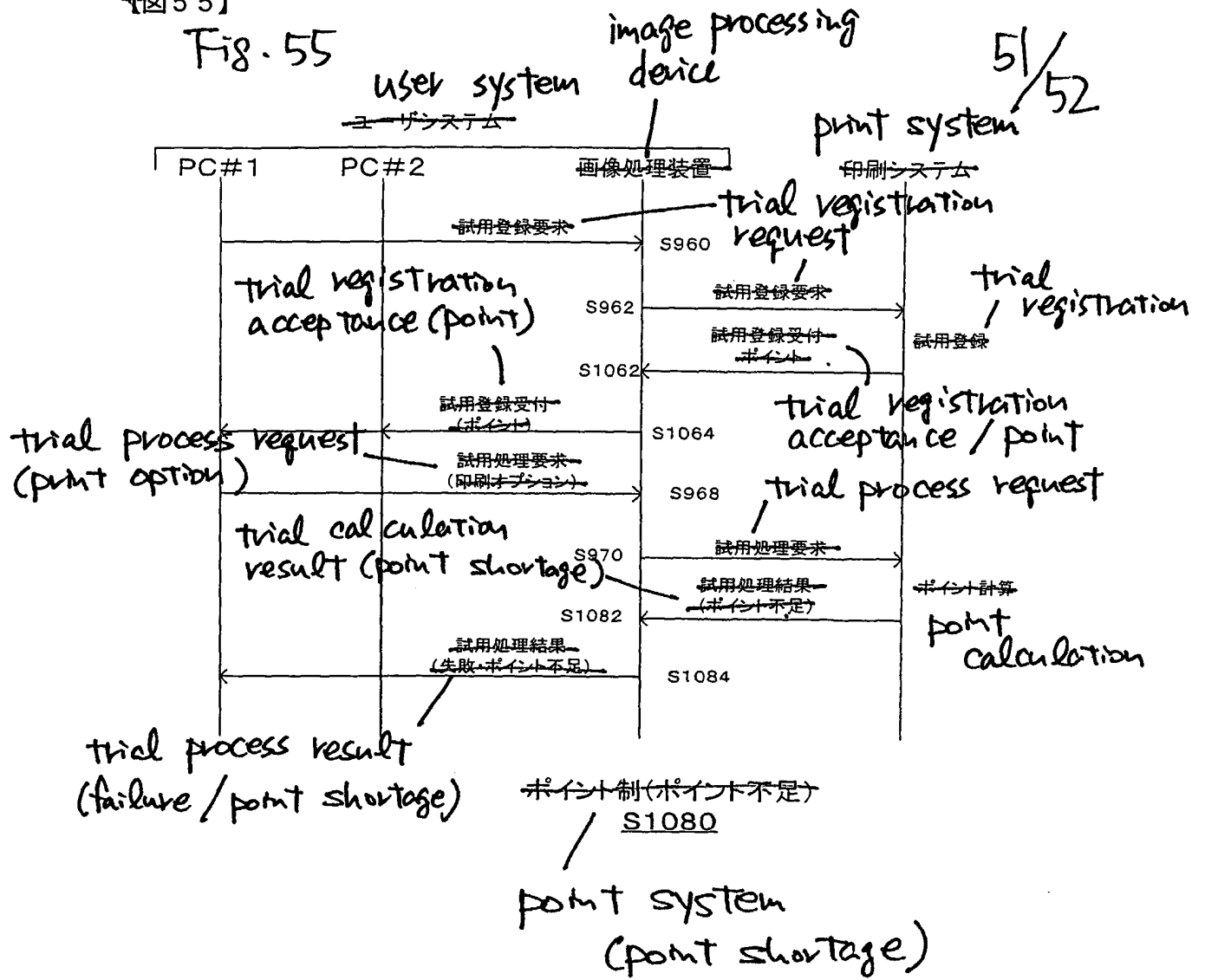


Fig. 56

image processing device

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